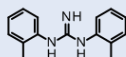


# Radiochemical Catalog 2019

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Version 2019.2

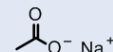
### [H-3]1,3-Di-*o*-tolylguanidine



$\sigma$ -2 receptor agonist

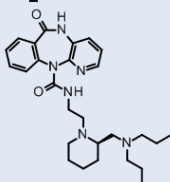
Description: High affinity  $\sigma$ -receptor agonist  
Catalog Number: **RCTT0063**  
Specific Activity: 30-60 Ci/mmol  
1110-2220 GBq/mmol

### [H-3]Acetic acid, sodium salt



Description: Sodium acetate, acetylating agent  
Catalog Number: **RCTT0411**  
Specific Activity: 20-30 Ci/mmol  
740-1110 GBq/mmol

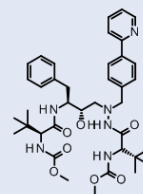
### [H-3]AF-DX 384



M<sub>2</sub> & M<sub>4</sub> mAChR antagonist

Description: Selective M<sub>2</sub> & M<sub>4</sub> muscarinic AChR antagonist  
Catalog Number: **RCTT0155**  
Specific Activity: 100-160 Ci/mmol  
3700-5920 GBq/mmol

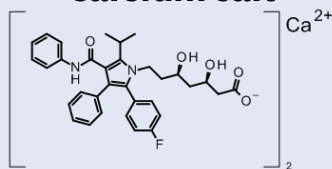
### [H-3]Atazanavir



HIV protease inhibitor

Description: HIV protease inhibitor  
Catalog Number: **RCTT0330**  
Specific Activity: 65-90 Ci/mmol  
2405-3330 GBq/mmol

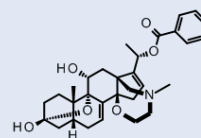
### [H-3]Atorvastatin, calcium salt



HMG-CoA reductase inhibitor

Description: LDL cholesterol lowering drug  
Catalog Number: **RCTT0540**  
Specific Activity: 30-60 Ci/mmol  
1110-2220 GBq/mmol

### [H-3]Batrachotoxin A, 20- $\alpha$ -benzoate

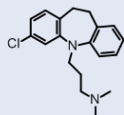


Sodium channel agonist

Description: Most active alkaloid binding at the receptor site-2 on sodium channels  
Catalog Number: **RCTT0532**  
Specific Activity: 60-87 Ci/mmol  
2220-3220 GBq/mmol

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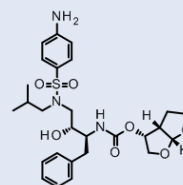
### [H-3]Clomipramine



Blocker of dopamine, norepinephrine and serotonin transporters

Description: Serotonin (SERT), norepinephrine (NET) and dopamine (DAT) transporter blocker  
 Catalog Number: **RCTT0470**  
 Specific Activity: 50-75 Ci/mmol  
 1850-2775 GBq/mmol

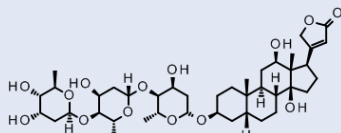
### [H-3]Darunavir



HIV protease inhibitor

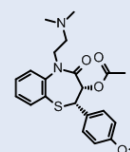
Description: HIV protease inhibitor  
 Catalog Number: **RCTT0080**  
 Specific Activity: 40-60 Ci/mmol  
 1480-2220 GBq/mmol

### [H-3]Digoxin



Description: Unselective inhibitor of the Na<sup>+</sup>/K<sup>+</sup>-ATPase  
 Catalog Number: **RCTT0644**  
 Specific Activity: 15-45 Ci/mmol  
 555-1665 GBq/mmol

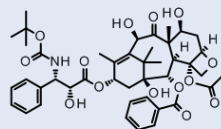
### [H-3]Cis-(+)-Diltiazem



Voltage gated Ca<sup>2+</sup> channel inhibitor

Description: Voltage gated Ca<sup>2+</sup> channel  $\gamma$ -1 subunit inhibitor  
 Catalog Number: **RCTT0233**  
 Specific Activity: 60-87 Ci/mmol  
 2220-3220 GBq/mmol

### [H-3]Docetaxel

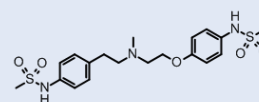


Microtubule depolymerization inhibitor

Description: Reversible, high-affinity inhibitor of microtubule depolymerization  
 Catalog Number: **RCTT0012**  
 Specific Activity: 25-90 Ci/mmol  
 925-3330 GBq/mmol

### [H-3]Dofetilide

(with high specific activity)



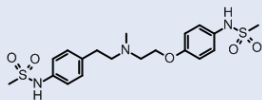
K<sup>+</sup> channel inhibitor (hERG)

Description: Inward rectifier K<sup>+</sup> channel inhibitor (KCNK2/KCNJ12)  
 Catalog Number: **RCTT0033**  
 Specific Activity: 60-87 Ci/mmol  
 2220-3220 GBq/mmol

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### [H-3]Dofetilide

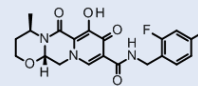
(with low specific activity)



K<sup>+</sup> channel inhibitor (hERG)

Description: Inward rectifier K<sup>+</sup> channel inhibitor (KCNK2/KCNJ12)  
Catalog Number: **RCTT0034**  
Specific Activity: 5-10 Ci/mmol  
185-370 GBq/mmol

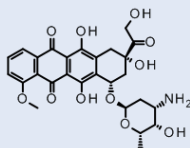
### [H-3]Dolutegravir



HIV integrase inhibitor

Description: HIV integrase inhibitor  
Catalog Number: **RCTT0021**  
Specific Activity: 5-20 Ci/mmol  
185-740 GBq/mmol

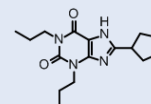
### [H-3]Doxorubicin



Topoisomerase II inhibitor / DNA intercalator

Description: Inhibitor of topoisomerase II progression / DNA intercalator  
Catalog Number: **RCTT0045**  
Specific Activity: 0.5-3 Ci/mmol  
18.5-111 GBq/mmol

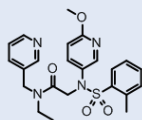
### [H-3]DPCPX



Adenosine A<sub>1</sub> receptor antagonist

Description: Potent and selective antagonist of the adenosine A<sub>1</sub> receptor  
Catalog Number: **RCTT0424**  
Specific Activity: 80-174 Ci/mmol  
2960-6438 GBq/mmol

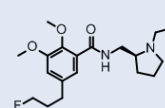
### [H-3]EMPA



OX<sub>2</sub> receptor antagonist

Description: Selective orexin 2 receptor antagonist  
Catalog Number: **RCTT0051**  
Specific Activity: 100-150 Ci/mmol  
3700-5550 GBq/mmol

### [H-3]Fallypride

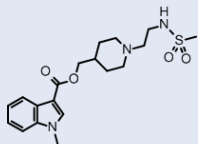


Dopamine D<sub>2</sub>/D<sub>3</sub> receptor antagonist

Description: High affinity dopamine D<sub>2</sub>/D<sub>3</sub> receptor antagonist  
Catalog Number: **RCTT0122**  
Specific Activity: 60-87 Ci/mmol  
2220-3220 GBq/mmol

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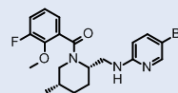
### [H-3]GR 113808



5-HT<sub>4</sub> receptor antagonist

Description: 5-HT<sub>4</sub> serotonin receptor antagonist  
Catalog Number: **RCTT0282**  
Specific Activity: 60-87 Ci/mmol  
2220-3220 GBq/mmol

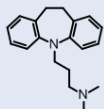
### [H-3]GSK1059865



OX<sub>1</sub> receptor antagonist

Description: Selective orexin 1 receptor antagonist  
Catalog Number: **RCTT0402**  
Specific Activity: 38-50 Ci/mmol  
1406-1850 GBq/mmol

### [H-3]Imipramine, hydrochloric acid salt



Blocker of norepinephrine and serotonin transporters

Description: Serotonin (SERT) and norepinephrine (NET) transporter blocker  
Catalog Number: **RCTT0518**  
Specific Activity: 40-70 Ci/mmol  
1480-2590 GBq/mmol

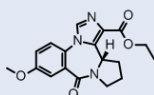
### [H-3]Kallidin, (des-Arg<sup>10</sup>, Leu<sup>9</sup>)

*H-Lys-Arg-Pro-Pro-Gly-Phe-Ser-Pro-Leu-OH*

Bradykinin B1 antagonist

Description: Specific Bradykinin B1 antagonist  
Catalog Number: **RCTT0455**  
Specific Activity: 50-120 Ci/mmol  
1850-4440 GBq/mmol

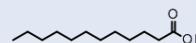
### [H-3]L-655,708



GABA<sub>A</sub> receptor inverse agonist

Description: Subtype-selective inverse agonist of the benzodiazepine binding site of the GABA<sub>A</sub> receptor  
Catalog Number: **RCTT0581**  
Specific Activity: 60-87 Ci/mmol  
2220-3220 GBq/mmol

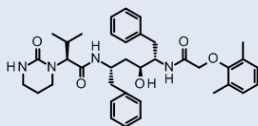
### [H-3]Lauric acid



Description: Fatty acid  
Catalog Number: **RCTT0491**  
Specific Activity: 90-120 Ci/mmol  
3330-4440 GBq/mmol

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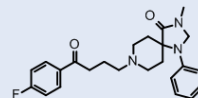
### [H-3]Lopinavir



HIV protease inhibitor

Description: HIV protease inhibitor  
Catalog Number: **RCTT0340**  
Specific Activity: 1-5 Ci/mmol  
37-185 GBq/mmol

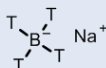
### [H-3]Methylspiperone



Dopamine D<sub>2/3</sub> receptor antagonist and  
5-HT<sub>2A</sub> receptor antagonist

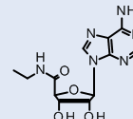
Description: Dopamine D<sub>2/3</sub> receptor  
antagonist and 5-HT<sub>2A</sub> receptor  
antagonist  
Catalog Number: **RCTT0300**  
Specific Activity: 60-87 Ci/mmol  
2220-3220 GBq/mmol

### [H-3]NaBH<sub>4</sub>



Description: Reducing agent  
Catalog Number: **RCTT1001**  
Specific Activity: 60-80 Ci/mmol  
2220-2960 GBq/mmol

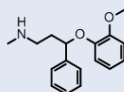
### [H-3]NECA



Adenosine receptor agonist

Description: High affinity agonist of the  
adenosine receptor (subtypes A<sub>1</sub>,  
A<sub>2A</sub> and A<sub>3</sub>)  
Catalog Number: **RCTT0430**  
Specific Activity: 20-35 Ci/mmol  
740-1665 GBq/mmol

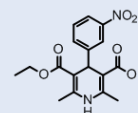
### [H-3]Nisoxetine, hydrochloric acid salt



Noradrenaline reuptake inhibitor

Description: Potent and selective inhibitor of  
noradrenaline uptake  
Catalog Number: **RCTT0313**  
Specific Activity: 60-87 Ci/mmol  
2220-3220 GBq/mmol

### [H-3]Nitrendipine

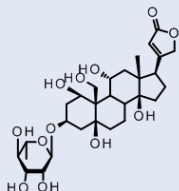


Ca<sup>2+</sup> channel blocker

Description: L-type calcium channel blocker  
Catalog Number: **RCTT0006**  
Specific Activity: 60-87 Ci/mmol  
2220-3220 GBq/mmol

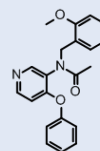
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### [H-3]Ouabain



Description: Unselective inhibitor of the Na<sup>+</sup>/K<sup>+</sup>-ATPase  
Catalog Number: **RCTT0633**  
Specific Activity: 15-30 Ci/mmol  
555-1110 GBq/mmol

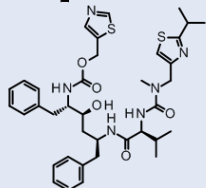
### [H-3]PBR28



TSPO radioligand

Description: Translocator protein radioligand  
Catalog Number: **RCTT0345**  
Specific Activity: 60-87 Ci/mmol  
2220-3220 GBq/mmol

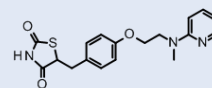
### [H-3]Ritonavir



HIV protease inhibitor

Description: HIV protease inhibitor and CYP3A4 inhibitor  
Catalog Number: **RCTT0091**  
Specific Activity: 5-25 Ci/mmol  
185-925 GBq/mmol

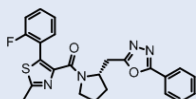
### [H-3]D/L-Rosiglitazone



Long-chain-fatty-acid-CoA ligase 4 inhibitor and PPAR $\gamma$  agonist

Description: Long-chain-fatty-acid-CoA ligase 4 inhibitor and PPAR $\gamma$  agonist  
Catalog Number: **RCTT0202**  
Specific Activity: 40-75 Ci/mmol  
1480-2775 GBq/mmol

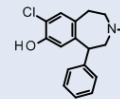
### [H-3]SB674042



Orexin OX1 receptor antagonist

Description: Potent and selective orexin OX1 receptor antagonist  
Catalog Number: **RCTT0461**  
Specific Activity: 50-60 Ci/mmol  
1850-2220 GBq/mmol

### [H-3]SCH 23390

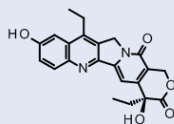


D<sub>1</sub> receptor antagonist

Description: Subtype-selective antagonist of the dopamine D<sub>1</sub> receptor  
Catalog Number: **RCTT0525**  
Specific Activity: 60-87 Ci/mmol  
2220-3220 GBq/mmol

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### [H-3]SN-38



Topoisomerase I inhibitor

Description: Topoisomerase I inhibitor  
Catalog Number: **RCTT0444**  
Specific Activity: 15-20 Ci/mmol  
555-740 GBq/mmol

### [H-3]Water



Description: Tritium oxide  
Catalog Number: **RCTT0075**  
Specific Activity: as required

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## [H-3] Custom Synthesis

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- Homogeneously and heterogeneously catalyzed H/T exchange
- Hydrogenation of unsaturated compounds
- Methylation reactions
- Quench with T<sub>2</sub>O
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All labelled compounds are purified by HPLC and are provided together with Certificate of Analysis including all relevant analytical data and its details.

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