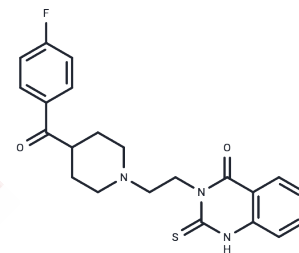


Altanserin

Chemical Properties

CAS No. :	76330-71-7
Formula:	C ₂₂ H ₂₂ FN ₃ O ₂ S
Molecular Weight:	411.49
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Altanserin is a highly specific 5-HT _{2A} receptor antagonist, frequently used as a radiolabeled ligand for PET imaging to evaluate brain receptor distribution.
Targets(IC ₅₀)	5-HT Receptor
In vitro	In vitro binding assays confirmed that Altanserin exhibits sub-nanomolar affinity for the 5-HT _{2A} receptor, with its binding characteristics successfully validating both invasive and non-invasive kinetic models for receptor quantification [3].

Solubility Information

Solubility	DMSO: 16 mg/mL (38.88 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4302 mL	12.151 mL	24.3019 mL
5 mM	0.486 mL	2.4302 mL	4.8604 mL
10 mM	0.243 mL	1.2151 mL	2.4302 mL
50 mM	0.0486 mL	0.243 mL	0.486 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Kroll T, Elmenhorst D, Matusch A, Celik AA, Wedekind F, Weisshaupt A, Beer S, Bauer A. [¹⁸F]Altanserin and small animal PET: impact of multidrug efflux transporters on ligand brain uptake and subsequent quantification of 5-HT_{2A} receptor dens

Hansen HD, Ettrup A, Herth MM, Dyssegaard A, Ratner C, Gillings N, Knudsen GM. Direct comparison of [(18) F]MH. MZ and [(18) F] altanserin for 5-HT_{2A} receptor imaging with PET. Synapse. 2013 Jun;67(6):328-37.

Ettrup A, Svarer C, McMahon B, da Cunha-Bang S, Lehel S, Møller K, Dyssegaard A, Ganz M, Beliveau V, Jørgensen LM, Gillings N, Knudsen GM. Serotonin 2A receptor agonist binding in the human brain with [(11)C]Cimbi-36: Test-retest reproducibi

Kroll T, Elmenhorst D, Matusch A, Wedekind F, Weisshaupt A, Beer S, Bauer A. Suitability of [18F]altanserin and PET to determine 5-HT_{2A} receptor availability in the rat brain: in vivo and in vitro validation of invasive and non-invasive kine

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