

SRA880 free base

Chemical Properties

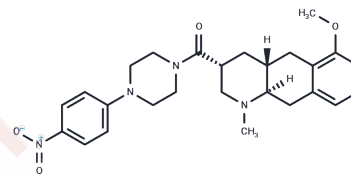
CAS No. : 187218-90-2

Formula: C₂₆H₃₂N₄O₄

Molecular Weight: 464.56

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	SRA880 is a non-peptide antagonist of somatostatin sst1-receptor. SRA880 displayed significantly lower affinity for the other human recombinant somatostatin receptors (pK (d) < or = 6.0). SRA880 shows a certain binding affinity to the human dopamine D4 receptors. SRA880 positively modulates release of endogenous SRIF, was found to synergize with imipramine in causing antidepressant-like effects in the tail suspension test.
Targets(IC50)	Others,Somatostatin

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1526 mL	10.7629 mL	21.5257 mL
5 mM	0.4305 mL	2.1526 mL	4.3051 mL
10 mM	0.2153 mL	1.0763 mL	2.1526 mL
50 mM	0.0431 mL	0.2153 mL	0.4305 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

Nilsson A, Stroth N, Zhang X, Qi H, Fälth M, Sköld K, Hoyer D, Andrén PE, Svenningsson P. Neuropeptidomics of mouse hypothalamus after imipramine treatment reveal somatostatin as a potential mediator of antidepressant effects. *Neuropharmacology*. 2012 Jan;62(1):347-57. doi: 10.1016/j.neuropharm.2011.08.004. Epub 2011 Aug 16. PubMed PMID: 21856315.

De Bundel D, Aourz N, Kiagiadaki F, Clinckers R, Hoyer D, Kastellakis A, Michotte Y, Thermos K, Smolders I. Hippocampal sst(1) receptors are autoreceptors and do not affect seizures in rats. *Neuroreport*. 2010 Mar 10;21(4):254-8. doi: 10.1097/WNR.0b013e3283353a64. PubMed PMID: 20134357.

Foong JP, Parry LJ, Gwynne RM, Bornstein JC. 5-HT(1A), SST(1), and SST(2) receptors mediate inhibitory postsynaptic potentials in the submucous plexus of the guinea pig ileum. *Am J Physiol Gastrointest Liver Physiol*. 2010 Mar;298(3):G384-94. doi: 10.1152/ajpgi.00438.2009. Epub 2009 Dec 10. PubMed PMID: 20007849; PubMed Central PMCID: PMC2838515.

Marazioti A, Pitychoutis PM, Papadopoulou-Daifoti Z, Spyraiki C, Thermos K. Activation of somatostatin receptors in the globus pallidus increases rat locomotor activity and dopamine release in the striatum. *Psychopharmacology (Berl)*. 2008 Dec;201(3):413-22. doi: 10.1007/s00213-008-1305-6. Epub 2008 Sep 3. PubMed PMID: 18766330.

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