

Lu AA33810

Chemical Properties

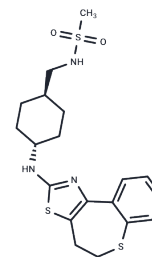
CAS No. : 304008-29-5

Formula: C₁₉H₂₅N₃O₂S₃

Molecular Weight: 423.62

Storage: Store at low temperature, Keep away from moisture
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	Lu AA33810 is a selective neuropeptide Y5 (NPY5) receptor antagonist with an oral activity and blood-brain barrier permeability advantage, exhibiting anti-anxiety and antidepressant-like effects at a $K_i = 1.5$ nM for rat receptors.
Targets(IC50)	Neuropeptide Y Receptor
In vivo	Lu AA33810 (3-30 mg/kg, oral administration) showed anxiolytic-like effects in SD rats tested with the social interaction test [1]. Lu AA33810 (10 mg/kg/day, intraperitoneal injection) exhibited anxiolytic-like effects in the social interaction test of Flinders Sensitive Line rats and demonstrated antidepressant-like effects in the forced swim test [1]. Lu AA33810 (3 and 10 mg/kg/day, intraperitoneal injection) produced antidepressant-like activity in Wistar rats subjected to chronic mild stress, restoring the stress-induced decrease in sucrose consumption [1].

Solubility Information

Solubility	DMSO: 32 mg/mL (75.54 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	--

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3606 mL	11.803 mL	23.6061 mL
5 mM	0.4721 mL	2.3606 mL	4.7212 mL
10 mM	0.2361 mL	1.1803 mL	2.3606 mL
50 mM	0.0472 mL	0.2361 mL	0.4721 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

Walker MW, et al. The novel neuropeptide Y Y5 receptor antagonist Lu AA33810 [N-[[trans-4-[(4,5-dihydro[1]benzothiepine[5,4-d]thiazol-2-yl)amino]cyclohexyl]methyl]-methanesulfonamide] exerts anxiolytic- and antidepressant-like effects in rat models of stress sensitivity. *J Pharmacol Exp Ther.* 2009 Mar;328(3):900-11.

Domin H, et al. Antidepressant-like activity of the neuropeptide Y Y5 receptor antagonist Lu AA33810: behavioral, molecular, and immunohistochemical evidence. *Psychopharmacology (Berl).* 2017 Feb;234(4):631-645.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481