

RO27-3225 TFA (274682-89-2 free base)

Chemical Properties

CAS No. :

Formula: C41H53F3N12O8

Molecular Weight: 898.93

Keep away from moisture

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	RO27-3225 TFA is a potent and selective agonist of melanocortin 4 receptor (MC4R; EC50: 1 nM and 8 nM for MC4R and MC1R) with neuroprotective and anti-inflammatory effects. RO27-3225 TFA shows ~30-fold selectivity for MC4R over MC3R.
Targets(IC50)	Others
In vivo	RO27-3225 could have a protective role against multiple organ failure following the circulatory shock. RO27-3225 (0.012-0.048 mg/kg; i.v.; Wistar rats) treatment reverses haemorrhagic shock, reduces multiple organ damage and improves survival [2].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.1124 mL	5.5622 mL	11.1243 mL
5 mM	0.2225 mL	1.1124 mL	2.2249 mL
10 mM	0.1112 mL	0.5562 mL	1.1124 mL
50 mM	0.0222 mL	0.1112 mL	0.2225 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

- Benoit SC, et al. A novel selective melanocortin-4 receptor agonist reduces food intake in rats and mice without producing aversive consequences. *J Neurosci.* 2000 May 1;20(9):3442-8.
- Giuliani D, et al. Selective melanocortin MC4 receptor agonists reverse haemorrhagic shock and prevent multiple organ damage. *Br J Pharmacol.* 2007 Mar;150(5):595-603.
- Zhang Y, et al. Effects of RO27-3225 on neurogenesis, PDGFR β + cells and neuroinflammation after cerebral infarction. *Int Immunopharmacol.* 2020 Feb 11;81:106281.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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