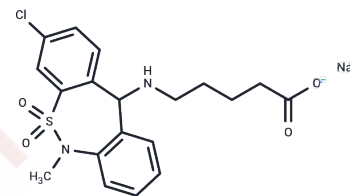


Tianeptine Metabolite MC5 sodium

Chemical Properties

CAS No. :	115220-11-6
Formula:	C ₁₉ H ₂₀ ClN ₂ O ₄ .Na
Molecular Weight:	430.88
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Tianeptine metabolite MC5, an active derivative of the atypical antidepressant tianeptine produced through β -oxidation, exhibits selective G protein activation in bioluminescence resonance energy transfer (BRET) assays. Utilizing HEK293T cells expressing the human μ -opioid receptor (MOR) over the human δ -opioid receptor (DOR; EC ₅₀ s = 0.454 and >100 μ M, respectively), it demonstrates specificity. Moreover, this metabolite reduces immobility in wild-type mice during the forced swim test at a dose of 30 mg/kg, an effect not observed in MOR knockout mice, suggesting its antidepressant-like activity is MOR-dependent.
Targets(IC ₅₀)	Drug Metabolite

Solubility Information

Solubility	Ethanol: Slightly soluble Methanol: Slightly soluble DMSO: Slightly soluble Dichloromethane: Slightly soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	--

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3208 mL	11.6042 mL	23.2083 mL
5 mM	0.4642 mL	2.3208 mL	4.6417 mL
10 mM	0.2321 mL	1.1604 mL	2.3208 mL
50 mM	0.0464 mL	0.2321 mL	0.4642 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.

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