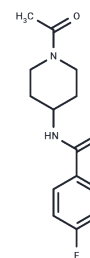


FK962

Chemical Properties

CAS No. : 283167-06-6
 Formula: C₁₄H₁₇FN₂O₂
 Molecular Weight: 264.3
 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	FK962 is an somatostatin release enhancer , exerts cognitive-enhancing actions.
Targets(IC50)	Others,Somatostatin
In vitro	FK962?or GDNF were found to significantly induce neurite elongation. The GDNF antibody significantly inhibited elongation induced by?FK962[1].
Cell Research	Dissociated, cultured trigeminal ganglion cells, containing neuronal and Schwann cells were cultured for 48 h with or without FK962. Neuronal elongation was evaluated by immunostaining with a neurofilament-specific antibody. Culture with or without GDNF, or with antibody against GDNF, was used to determine the role of GDNF in FK962-induced neurite elongation[1].

Solubility Information

Solubility	DMSO: 9 mg/mL (34.05 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (3.78 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.7836 mL	18.9179 mL	37.8358 mL
5 mM	0.7567 mL	3.7836 mL	7.5672 mL
10 mM	0.3784 mL	1.8918 mL	3.7836 mL
50 mM	0.0757 mL	0.3784 mL	0.7567 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

FK962 induces neurite outgrowth in cultured monkey trigeminal ganglion cells[J]. Graefes Archive for Clinical & Experimental Ophthalmology, 2016.

Tokita K, et al. FK962, a novel enhancer of somatostatin release, exerts cognitive-enhancing actions in rats. Eur J Pharmacol. 2005 Dec 19;527(1-3):111-20.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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