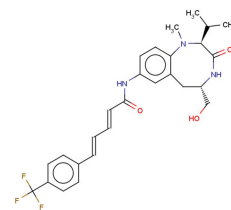


TPPB

Chemical Properties

CAS No.:	497259-23-1
Formula:	C27H30F3N3O3
Molecular Weight:	501.54
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	TPPB is a kinase C activator of cell-permeable benzolactam-derived protein (Ki: 11.9 nM).
Targets(IC ₅₀)	PKC: 11.9 nM (ki)
In vitro	TPPB inhibits the activation of caspase-3 induced by Aβ25-35. TPPB could increase the phosphorylation of Akt, PKC, MARCKS, and MAPK, which are inhibited by Aβ25-35 treatment. TPPB at a concentration of 1 μM could antagonize Aβ25-35 induced cell damage. By the use of a cell line derived from an Alzheimer's disease patient, significant enhancement of sAPPα secretion is achieved at 1 μM concentration for TPPB. TPPB has a role against Aβ25-35-induced neurotoxicity in PC12 cells [1][2].
In vivo	TPPB is evaluated for the induction of hyperplasia displays a modest response at 300 μg after topical application to the shaved backs of outbred Sencar mice and [1].

Solubility Information

Solubility	DMSO: 135 mg/mL (269.17 mM) DMSO: 125 mg/mL (249.23 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.994 mL	9.969 mL	19.939 mL
5 mM	0.399 mL	1.994 mL	3.988 mL
10 mM	0.199 mL	0.997 mL	1.994 mL
50 mM	0.040 mL	0.199 mL	0.399 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Kozikowski AP, et al. New amide-bearing benzolactam-based protein kinase C modulators induce enhanced secretion of the amyloid precursor protein metabolite sAPPα. *J Med Chem*. 2003 Jan 30;46(3):364-73.
2. Yang HQ, et al. Neuroprotective effects of new protein kinase C activator TPPB against Aβ25-35 induced neurotoxicity in PC12 cells. *Neurochem Res*. 2012 Oct;37(10):2213-21.

Inhibitors · Natural Compounds · Compound Libraries

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