

RG2833

Chemical Properties

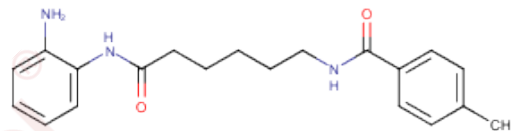
CAS No. : 1215493-56-3

Formula: C₂₀H₂₅N₃O₂

Molecular Weight: 339.43

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	RG2833 (RGFP109) (RGFP109), a brain-penetrant HDAC inhibitor, is with IC ₅₀ of 60 nM and 50 nM for HDAC1 and HDAC3, respectively.
Targets(IC ₅₀)	HDAC
In vitro	In unstimulated peripheral blood mononuclear cells, RG2833 upregulates the level of the synaptic mRNA and protein in a dose-dependent manner.
Kinase Assay	Aconitase activities are determined by homogenization of mouse brain tissues on ice at 10% w/v in CellLytic MT Mammalian Tissue Lysis/Extraction buffer, followed by centrifugation at 800×g for 10 min at 4°C. Tissue lysates (50 µL) are then added to 200 µL of substrate mix (50 mM Tris/HCl pH 7.4, 0.4 mM NADP, 5 mM Na citrate, 0.6 mM MgCl ₂ , 0.1% (v/v) Triton X-100 and 1U isocitrate dehydrogenase) and the reactions are incubated at 37°C for 15 min, followed by spectrophotometric absorbance measurements every minute for 15 min at 340 nm 37°C to determine the reaction slope. Aconitase activities of mouse brain tissues are then normalized to citrate synthase activities, which are determined using a citrate synthase assay kit.

Solubility Information

Solubility	DMSO: 63 mg/mL (185.6 mM), Ethanol: 10 mg/mL (29.46 mM), < 1 mg/ml refers to the product slightly soluble or insoluble)
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A DRUG SCREENING EXPERT

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9461 mL	14.7306 mL	29.4612 mL
5 mM	0.5892 mL	2.9461 mL	5.8922 mL
10 mM	0.2946 mL	1.4731 mL	2.9461 mL
50 mM	0.0589 mL	0.2946 mL	0.5892 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.

Reference

Rai M, et al. PLoS One. 2010, 5(1), e8825.

Sandi C, et al. Neurobiol Dis. 2011, 42(3), 496-505.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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