

GK187

Chemical Properties

CAS No. : 1071001-50-7

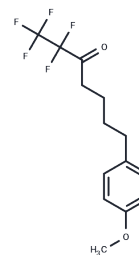
Formula: C₁₄H₁₅F₅O₂

Molecular Weight: 310.26

Keep away from direct sunlight, Keep away from moisture

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

Actual storage temperature shall be subject to the COA.



Biological Description

Description	GK187 is a selective and potent Group VIA calcium-independent phospholipase A2 (GVIA iPLA2) inhibitor, used in the study of neurological disorders.
Targets(IC50)	Phospholipase
In vitro	GK187 is a selective VIA group calcium-independent phospholipase (A2 GVIA iPLA2) inhibitor with an XI (50) value of 0.0001 and no significant inhibition of GIVA cPLA2 or GV sPLA2. [1]

Solubility Information

Solubility	Ethanol: 5 mg/mL (16.12 mM), Sonication is recommended. DMSO: 80 mg/mL (257.85 mM), Sonication is recommended. Ethanol:PBS (pH 7.2) (1:2): < 1 mg/mL (Insoluble.) DMF: 5 mg/mL (16.12 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: 3.3 mg/mL (10.64 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	3.2231 mL	16.1155 mL	32.231 mL
5 mM	0.6446 mL	3.2231 mL	6.4462 mL
10 mM	0.3223 mL	1.6116 mL	3.2231 mL
50 mM	0.0645 mL	0.3223 mL	0.6446 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

Magrioti V, et al. New potent and selective polyfluoroalkyl ketone inhibitors of GVIA calcium-independent phospholipase A2. *Bioorg Med Chem.* 2013 Sep 15;21(18):5823-9.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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