

HN37

Chemical Properties

CAS No. : 1821222-10-9

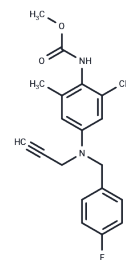
Formula: C₂₀H₂₁FN₂O₂

Molecular Weight: 340.39

Store at low temperature

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	HN37 is a potent antiepileptic compound with an EC ₅₀ of 37 nM for KCNQ2. HN37 is a click chemistry reagent containing an alkyne group for CuAAC reactions with azides.
Targets(IC ₅₀)	Potassium Channel
In vitro	HN37 is a potent neuronal Kv7 activator.[1]

Solubility Information

Solubility	DMSO: 40 mg/mL (117.51 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2 mg/mL (5.88 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	2.9378 mL	14.689 mL	29.3781 mL
5 mM	0.5876 mL	2.9378 mL	5.8756 mL
10 mM	0.2938 mL	1.4689 mL	2.9378 mL
50 mM	0.0588 mL	0.2938 mL	0.5876 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

Yang-Ming Zhang, et al. Discovery of HN37 as a Potent and Chemically Stable Antiepileptic Drug Candidate. J Med Chem. 2021 May 13;64(9):5816-5837.

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