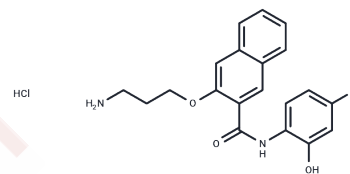


653-47 hydrochloride

Chemical Properties

CAS No. :	1224567-46-7
Formula:	C ₂₀ H ₂₀ Cl ₂ N ₂ O ₃
Molecular Weight:	407.29
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	653-47 hydrochloride is a potentiator, significantly potentiates the cAMP-response element binding protein (CREB) inhibitory activity of 666-15. It is also a very weak CREB inhibitor with IC ₅₀ of 26.3 μM.
Targets(IC ₅₀)	Epigenetic Reader Domain

Solubility Information

Solubility	DMSO: 250 mg/mL (613.81 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 3.3 mg/mL (8.1 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	2.4553 mL	12.2763 mL	24.5525 mL
5 mM	0.4911 mL	2.4553 mL	4.9105 mL
10 mM	0.2455 mL	1.2276 mL	2.4553 mL
50 mM	0.0491 mL	0.2455 mL	0.4911 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

Xie F, et al. Discovery of a Synergistic Inhibitor of cAMP-Response Element Binding Protein (CREB)-Mediated Gene Transcription with 666-15. J Med Chem. 2019;62(24):11423-11429.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481