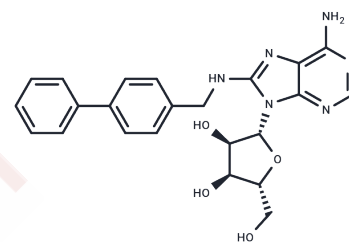


CNT2 inhibitor-1

Chemical Properties

CAS No. :	880155-70-4
Formula:	C ₂₃ H ₂₄ N ₆ O ₄
Molecular Weight:	448.47
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	CNT2 inhibitor-1 is a potent inhibitor of concentrative nucleoside transporter 2 (CNT2) with an IC ₅₀ of 640 nM for hCNT2.
Targets(IC ₅₀)	Others
In vitro	CNT2 inhibitor-1 (compound 48) demonstrates an 81-fold increase in inhibitory activity compared to the parent compound 12, and a 1500-fold higher potency than 2'-deoxy-5-fluorouridine, phlorizin, and 7,8,3'-trihydroxyflavone, all recognized hCNT2 inhibitors[1].

Solubility Information

Solubility	DMSO: 45 mg/mL (100.34 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: 2 mg/mL (4.46 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	2.2298 mL	11.149 mL	22.298 mL
5 mM	0.446 mL	2.2298 mL	4.4596 mL
10 mM	0.223 mL	1.1149 mL	2.2298 mL
50 mM	0.0446 mL	0.223 mL	0.446 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

Tatani K, et al. Identification of 8-aminoadenosine derivatives as a new class of human concentrative nucleoside transporter 2 inhibitors. ACS Med Chem Lett. 2015 Jan 28;6(3):244-8.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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