

BVT-14225

Chemical Properties

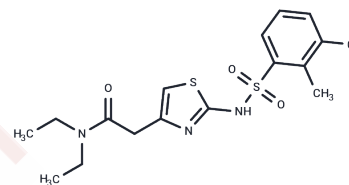
CAS No. : 376638-65-2

Formula: C₁₆H₂₀ClN₃O₃S₂

Molecular Weight: 401.93

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	BVT-14225, a selective 11β-Hydroxysteroid dehydrogenase type 1 (11β-HSD1) inhibitor, has an IC ₅₀ value of 52 nM.
Targets(IC ₅₀)	Dehydrogenase
In vitro	BVT-14225 shows high activity in the enzyme assay with 90% inhibition at 10 μM. It has an IC ₅₀ for 11β-HSD1 on a human enzyme assay of 52 nM.

Solubility Information

Solubility	DMSO: 50 mg/mL (124.4 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 (4.98 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	2.488 mL	12.440 mL	24.880 mL
5 mM	0.4976 mL	2.488 mL	4.976 mL
10 mM	0.2488 mL	1.244 mL	2.488 mL
50 mM	0.0498 mL	0.2488 mL	0.4976 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

Barf T, et al. Arylsulfonamidothiazoles as a new class of potential antidiabetic drugs. Discovery of potent and selective inhibitors of the 11beta-hydroxysteroid dehydrogenase type 1. J Med Chem. 2002 Aug 29;45(18):3813-5.
Vicker N, et al. Novel non-steroidal inhibitors of human 11beta-hydroxysteroid dehydrogenase type 1. J Steroid Biochem Mol Biol. 2007 May;104(3-5):123-9.

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