

BVT-14225

## Chemical Properties

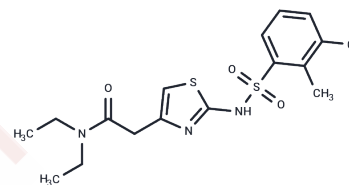
CAS No. : 376638-65-2

Formula: C<sub>16</sub>H<sub>20</sub>ClN<sub>3</sub>O<sub>3</sub>S<sub>2</sub>

Molecular Weight: 401.93

Appearance: no data available

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



## Biological Description

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

## 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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