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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

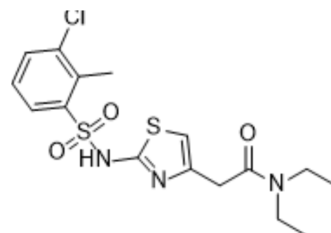
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BVT-14225

Cat. No.:	HY-18055
CAS No.:	376638-65-2
Molecular Formula:	C ₁₆ H ₂₀ ClN ₃ O ₃ S ₂
Molecular Weight:	401.93
Target:	11 β -HSD
Pathway:	Metabolic Enzyme/Protease
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 2 years -20°C 1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (248.80 mM)
 * "≥" means soluble, but saturation unknown.

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		2.4880 mL	12.4400 mL	24.8800 mL
	5 mM		0.4976 mL	2.4880 mL	4.9760 mL
	10 mM		0.2488 mL	1.2440 mL	2.4880 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (6.22 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE- β -CD in saline)
Solubility: ≥ 2.5 mg/mL (6.22 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (6.22 mM); Clear solution

BIOLOGICAL ACTIVITY

Description	BVT-14225 is a selective 11 β -Hydroxysteroid dehydrogenase type 1 (11 β -HSD1) inhibitor with an IC ₅₀ of 52 nM.
IC ₅₀ & Target	IC ₅₀ : 52 nM (11 β -HSD1) ^[1]
In Vitro	Selective inhibition of 11 β -HSD1 decreases blood glucose concentrations in hyperglycaemic mice. Selective inhibitors of 11 β -HSD1 have considerable potential as treatments for a number of diseases of great unmet medical need such as type 2

diabetes, obesity and metabolic syndrome, a multifactorial disorder. BVT-14225 shows high activity in the enzyme assay with 90% inhibition at 10 μ M. It has an IC_{50} for 11 β -HSD1 on a human enzyme assay of 52 nM^[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Endocrinology. 2022 Jul 1;163(7):bqac068.

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REFERENCES

[1]. 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.

[2]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA