CD BioGlyco
SUITE 201, 17 Ramsey Road, Shirley, NY 11967, USA
Tel: 1-631-637-6119 | Email: info@bioglyco.com

Product Information

Dehydrogenase inhibitor, Vidofludimus, Purity ≥98%

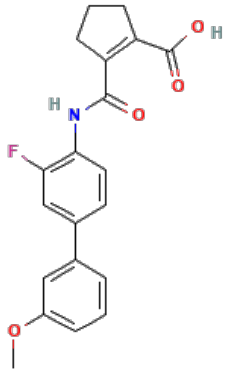
Cat. No.: X24-09-YM199

Size: 5 mg; 10 mg; 25 mg; 50 mg

CAS Number: 717824-30-1

Compound CID: 9820008

Synonym: 717824-30-1; 4SC 101; 4SC101; 4SC-101; SC12267; SC-12267; SC 12267; 2-[[2-Fluoro-4-(3-methoxyphenyl)phenyl]carbamoyl]cyclopentene-1-carboxylic acid; 2-[[2-Fluoro-4-(3-methoxyphenyl)phenyl]carbamoyl]cyclopentene-1-carboxylic acid; Dehydrogenase inhibitor



This product is for research use only and is not intended for diagnostic use.

Product Information

Description	Vidofludimus, soluble in DMSO and ethanol and insoluble in water, is an effective metabolism inhibitor, that has the ability to prevent the pathway of cell metabolism by inhibiting dehydrogenases. The molecular weight of the compound is 355.36, and its molecular formula is $C_{20}H_{18}FNO_4$. It targets the Human DHODH.
Molecular Weight	355.36
Molecular Formula	$C_{20}H_{18}FNO_4$
Targets	Human DHODH
IUPAC Name	2-[[2-Fluoro-4-(3-methoxyphenyl)phenyl]carbamoyl]cyclopentene-1-carboxylic acid
InChI	InChI=1S/C20H18FNO4/c1-26-14-5-2-4-12(10-14)13-8-9-18(17(21)11-13)22-19(23)15-6-3-7-16(15)20(24)25/h2,4-5,8-11H,3,6-7H2,1H3,(H,22,23)(H,24,25)
InChI Key	XPRDUGXOWVXZLL-UHFFFAOYSA-N
Canonical SMILES	COC1=CC=CC(=C1)C2=CC(=C(C=C2)NC(=O)C3=C(CCC3)C(=O)O)F
Isomeric SMILES	CCCSC1=C(C=CC(=N1)N2CCC[C@H](C2)CC(=O)O)C(=O)NC3CCCCC3
Form	Lyophilized powder
Purity	≥98%
Impurities	Free from inappropriate visible particulates, foreign matter, discoloration, or other defects.
Solubility	*In vitro*: DMSO (warmed): 96 mg/mL (270.14 mM); Water: insoluble; Ethanol (warmed): 1 mg/mL (2.81 mM); *In vivo*: Suspended in water, 19 mg/mL
Identity	Confirmed by NMR/HPLC/MS.

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Stability	In its lyophilized form, the chemical remains stable for 36 months.
Quality Level	Research grade
Applications	Vidofludimus can be studied extensively for its potential therapeutic applications in the treatment of autoimmune conditions due to its ability to modulate the immune response.
Storage	Store at -20ºC, and keep desiccated.