CD BioGlyco
SUITE 201, 17 Ramsey Road, Shirley, NY 11967, USA
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Product Information

Dp44mT, Purity ≥98%

Cat. No.: X24-09-YM1364

Size: 10 mg; 25 mg; 50 mg; 100 mg

MDL: MFCD20527329

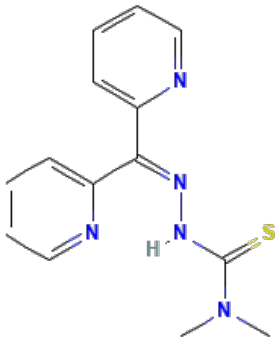
CAS Number: 152095-12-0

Compound CID: 10334137

Synonym: 152095-12-0; Iron chelator, Dp44mT;

3-(Dipyridin-2-ylmethylideneamino)-1,1-dimethylthiourea

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



Product Information

Description	Dp44mT, soluble in DMSO and ethanol and insoluble in water, is a potent iron chelator. The molecular weight of the compound is 285.37, and its molecular formula is $C_{14}H_{15}N_5S$.
Molecular Weight	285.37
Molecular Formula	$C_{14}H_{15}N_5S$
IUPAC Name	3-(Dipyridin-2-ylmethylideneamino)-1,1-dimethylthiourea
InChI	InChI=1S/C14H15N5S/c1-19(2)14(20)18-17-13(11-7-3-5-9-15-11)12-8-4-6-10-16-12/h3-10H,1-2H3,(H,18,20)
InChI Key	XOBIGRNRXCAMJQ-UHFFFAOYSA-N
Canonical SMILES	CN(C)C(=S)NN=C(C1=CC=CC=N1)C2=CC=CC=N2
Isomeric SMILES	CC(C)C[C@@H](C(=O)N[C@@H](CCCN=C(N)N)C(=O)N1CCC[C@H]1C(=O)NNC(=O)N)NC(=O)[C@@H](COC(C)(C)C)NC(=O)[C@H](CC2=CC=C(C=C2)O)NC(=O)[C@H](CO)NC(=O)[C@H](CC3=CNC4=CC=CC=C43)NC(=O)[C@H](CC5=CN=CN5)NC(=O)[C@@H]6CCC(=O)N6.CC(=O)O
Form	Lyophilized powder
Purity	≥98%
Impurities	Free from inappropriate visible particulates, foreign matter, discoloration, or other defects.
Solubility	*In vitro*: DMSO (warmed): 50 mg/mL (175.21 mM); Water: insoluble; Ethanol (warmed): 41 mg/mL (143.67 mM); *In vivo*: Propylene glycol: 1 mg/mL
Identity	Confirmed by NMR/HPLC/MS.
Stability	In its lyophilized form, the chemical remains stable for 36 months.
Quality Level	Research grade

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Applications	Dp44mT can be studied extensively for its potential therapeutic applications in the treatment of iron-overloading diseases and certain types of cancers.
Storage	Store at -20ºC, and keep desiccated.