

Product Information

5-Iodotubercidin

Cat. No.: X23-12-YM852

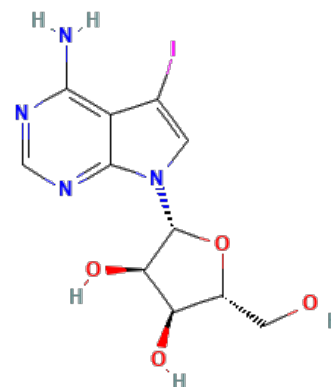
Size: 2 mg; 5 mg; 10 mg; 20 mg

CAS Number: 24386-93-4

Compound CID: 97297

Synonym: 24386-93-4; NSC 113939; Itu

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



Product Information

Description	5-Iodotubercidin, soluble in DMSO and insoluble in water and ethanol, inhibits the signaling pathway between G-protein-coupled receptors (GPCRs) and G proteins. It targets adenosine kinase.
Molecular Weight	392.2
Molecular Formula	C ₁₁ H ₁₃ IN ₄ O ₄
Targets	Adenosine kinase
IUPAC Name	(2R,3R,4S,5R)-2-(4-Amino-5-iodopyrrolo[2,3-d]pyrimidin-7-yl)-5-(hydroxymethyl)oxolane-3,4-diol
InChI	InChI=1S/C11H13IN4O4/c12-4-1-16(10-6(4)9(13)14-3-15-10)11-8(19)7(18)5(2-17)20-11/h1,3,5,7-8,11,17-19H,2H2,(H2,13,14,15)/t5-,7-,8-,11-/m1/s1
InChI Key	WHSIXKUPQCKWBY-IOSLPCCCSA-N
Canonical SMILES	C1=C(C2=C(N=CN=C2N1C3C(C(C(O3)CO)O)O)N)I
Isomeric SMILES	C1=C(C2=C(N=CN=C2N1[C@H]3[C@@H]([C@@H]([C@H](O3)CO)O)O)N)I
Form	Lyophilized powder
Purity	>98%
Solubility	DMSO: 73 mg/mL (186.15 mM); Water: insoluble; Ethanol: insoluble
Stability	The product is stable for three years when stored at the recommended temperature in lyophilized powder.
Applications	5-Iodotubercidin can be used for its cell proliferation, apoptosis (programmed cell death), and inflammation.
Storage	Store at -20°C, and keep desiccated.