



Product Information

PDE inhibitor, Olprinone, Purity $\geq 98\%$

Cat. No.: X24-09-YM054

Size: 1 mg; 5 mg; 10 mg; 20 mg

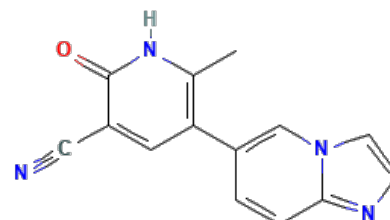
CAS Number: 106730-54-5

Compound CID: 4593

Synonym: 106730-54-5; Loprinone;

5-Imidazo[1,2-a]pyridin-6-yl-6-methyl-2-oxo-1H-pyridine-3-carbonitrile; PDE inhibitor

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



Product Information

Description	Olprinone, soluble in DMSO, is an effective metabolism inhibitor, that has the ability to prevent the pathway of cell metabolism by inhibiting PDE. The molecular weight of the compound is 250.26, and its molecular formula is $C_{14}H_{10}N_4O$.
Molecular Weight	250.26
Molecular Formula	$C_{14}H_{10}N_4O$
IUPAC Name	5-Imidazo[1,2-a]pyridin-6-yl-6-methyl-2-oxo-1H-pyridine-3-carbonitrile
InChI	InChI=1S/C14H10N4O/c1-9-12(6-11(7-15)14(19)17-9)10-2-3-13-16-4-5-18(13)8-10/h2-6,8H,1H3,(H,17,19)
InChI Key	JPAWFIIYTJQOKW-UHFFFAOYSA-N
Canonical SMILES	<chem>CC1=C(C(=C(C(=O)N1)C#N)C2=CN3C=CN=C3C=C2</chem>
Isomeric SMILES	<chem>CN1C(=O)C2=C(N(N=C2N3C1=N[C@H]4[C@@H]3CCCC4)CC5=CC=C(C=C5)C6=NC(=CC=C6)F)N</chem> <chem>C7=CC=CC=C7</chem>
Form	Lyophilized powder
Purity	$\geq 98\%$
Impurities	Free from inappropriate visible particulates, foreign matter, discoloration, or other defects.
Solubility	<i>In vitro</i> : DMSO: 48 mg/mL (191.8 mM)
Identity	Confirmed by NMR/HPLC/MS.
Stability	In its lyophilized form, the chemical remains stable for 36 months.
Quality Level	Research grade
Applications	Olprinone plays a key role in helping to manage symptoms of heart failure and improve cardiac



function.

Storage

Store at -20°C, and keep desiccated.
