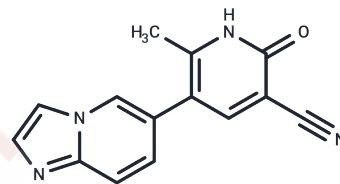


## Olprinone

## Chemical Properties

CAS No. :	106730-54-5
Formula:	C <sub>14</sub> H <sub>10</sub> N <sub>4</sub> O
Molecular Weight:	250.26
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Olprinone (Loprinone)(Loprinone) is a selective phosphodiesterase 3 (PDE3) inhibitor. Olprinone has been reported to improve microcirculation and attenuate inflammation. Olprinone is often used to increase cardiac output after cardiopulmonary bypass (CPB).
Targets(IC50)	PDE

## Solubility Information

Solubility	DMSO: 2.51 mg/mL (10.03 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.9958 mL	19.9792 mL	39.9584 mL
5 mM	0.7992 mL	3.9958 mL	7.9917 mL
10 mM	0.3996 mL	1.9979 mL	3.9958 mL
50 mM	0.0799 mL	0.3996 mL	0.7992 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Tsubokawa T, Ishizuka S, Fukumoto K, et al. The effect of hemodilution by cardiopulmonary bypass on protein binding of olprinone. *J Anesth.* 2012 .

Yamanaka H, Hayashi Y, Kamibayashi T, Mashimo T. Effect of olprinone, a phosphodiesterase III inhibitor, on balance of cerebral oxygen supply and demand during cardiopulmonary bypass. *J Cardiovasc Pharmacol.* 2011 May;57(5):579-83.

Mazon E, Esposito E, Di Paola R, et al. Olprinone, a specific phosphodiesterase (PDE)-III inhibitor, reduces the development of multiple organ dysfunction syndrome in mice. *Pharmacol Res.* 2011 Jul;64(1):68-79.

Mokra D, Drgova A, Pullmann R Sr, et al. Selective phosphodiesterase 3 inhibitor olprinone attenuates meconium-induced oxidative lung injury. *Pulm Pharmacol Ther.* 2012 Jun;25(3):216-22.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481