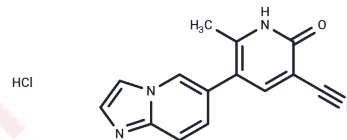


Olprinone Hydrochloride

Chemical Properties

CAS No. :	119615-63-3
Formula:	C ₁₄ H ₁₁ ClN ₄ O
Molecular Weight:	286.72
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 Hydrochloride, also known as Loprinone, is a phosphodiesterase (PDE) 3 potent inhibitor, exhibiting IC ₅₀ values of 150, 100, 0.35, and 14 μM for PDE1, PDE2, PDE3, and PDE4, respectively. It is utilized in heart failure research for its positive inotropic and vasodilative properties. It also exhibits anti-inflammatory activity [1] [2].
Targets(IC ₅₀)	Others,PDE
In vivo	Olprinone (Loprinone) Hydrochloride (0.2 mg/kg; i.p.) effectively mitigates inflammation and reduces myocardial damage in ischemia-reperfusion injury within male adult Wistar rats (250-300 g) designated as ischemia-reperfusion models. Administered intraperitoneally 15 minutes post-ischemia, it markedly lowers histologic signs of cardiac injury, diminishes levels of pro-inflammatory cytokines including tumor necrosis factor-α (TNF-α) and Interleukin-1β (IL-1β), decreases expression of adhesion molecules such as Inter-Cellular Adhesion Molecule 1 (ICAM-1) and P-Selectin, reduces nitrotyrosine formation, suppresses nuclear factor kappa-B (NF-κB) expression, curtails Poly (ADP-ribose) (PAR) formation, and lessens apoptosis, as evidenced by alterations in Bax, Bcl-2, Fas-L levels and terminal deoxynucleotidyl transferase-mediated UTP end labeling (TUNEL) outcomes.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.4877 mL	17.4386 mL	34.8772 mL
5 mM	0.6975 mL	3.4877 mL	6.9754 mL
10 mM	0.3488 mL	1.7439 mL	3.4877 mL
50 mM	0.0698 mL	0.3488 mL	0.6975 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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

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