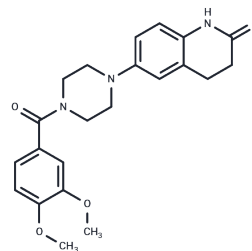


## Vesnarinone

## Chemical Properties

CAS No. :	81840-15-5
Formula:	C <sub>22</sub> H <sub>25</sub> N <sub>3</sub> O <sub>4</sub>
Molecular Weight:	395.45
Appearance:	no data available
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year



## Biological Description

Description	Vesnarinone (Arkin) (INN) is a mixed phosphodiesterase 3 inhibitor and ion-channel modifier that has modest, dose-dependent, positive inotropic activity, but minimal negative chronotropic activity. It also suppresses cell proliferation and induces apoptosis by inducing the expression of p21, an inhibitor of cyclin-dependent kinase activity in p53-mediated cell cycle arrest.
Targets(IC50)	HIV Protease,PDE

## Solubility Information

Solubility	DMSO: 3.95 mg/mL (9.99 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5288 mL	12.6438 mL	25.2876 mL
5 mM	0.5058 mL	2.5288 mL	5.0575 mL
10 mM	0.2529 mL	1.2644 mL	2.5288 mL
50 mM	0.0506 mL	0.2529 mL	0.5058 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.

### Reference

- Katayama Y, et al. Inhibitory effects of Vesnarinone on cloned cardiac delayed rectifier K(+) channels expressed in a mammalian cell line. *J Pharmacol Exp Ther*. 2000 Jul;294(1):339-46.
- Inage M, et al. Vesnarinone represses the fibrotic changes in murine lung injury induced by bleomycin. *Int J Biol Sci*. 2009;5(4):304-10.
- Cavusoglu E, et al. Vesnarinone: a new inotropic agent for treating congestive heart failure. *J Card Fail*. 1995 Jun;1(3):249-57.
- Matsumori A, et al. Vesnarinone, a new inotropic agent, inhibits cytokine production by stimulated human blood from patients with heart failure. *Circulation*. 1994 Mar;89(3):955-8.

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