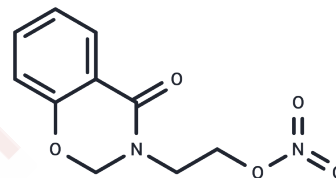


Sinitrodil

Chemical Properties

CAS No. :	143248-63-9
Formula:	C10H10N2O5
Molecular Weight:	238.2
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	Sinitrodil (ITF-296) is a guanylate cyclase stimulant that may be used in the treatment of myocardial ischemia and angina pectoris.
Targets(IC50)	Others,Guanylate cyclase
In vivo	Sinitrodil (10、20、40 mg; oral) increased gradually brachial artery compliance with increasing doses of sinitrodil (by 10, 20, and 27% with 10, 20, and 40 mg sinitrodil, respectively). Total peripheral resistance index decreased with isosorbide dinitrate (by 11%) and 40 mg sinitrodil (by 7%), while it remained unchanged with 10 mg and 20 mg sinitrodil.[3]

Solubility Information

Solubility	DMSO: 27.5 mg/mL (115.45 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	4.1982 mL	20.9908 mL	41.9815 mL
5 mM	0.8396 mL	4.1982 mL	8.3963 mL
10 mM	0.4198 mL	2.0991 mL	4.1982 mL
50 mM	0.084 mL	0.4198 mL	0.8396 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

Minghetti P, et al. In vitro skin permeation of Sinitrodil, a member of a new class of nitrovasodilator drugs. Eur J Pharm Sci. 1999 Feb;7(3):231-6.

Monzani MV, et al. Pharmacokinetics of ITF 296 (Sinitrodil) a novel organic nitrate, in healthy volunteers. Eur J Pharm Sci. 1999 Feb;7(3):179-84. PubMed PMID: 9845803.

Van Bortel LM, et al. Is it possible to develop drugs that act more selectively on large arteries? J Hypertens. 1999 May;17(5):701-5.

Khattar RS, et al. Safety, tolerability, and antiischaemic efficacy of ITF-296, a nitric oxide donor, in patients with chronic stable angina. J Cardiovasc Pharmacol. 1998 Aug;32(2):295-9.

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