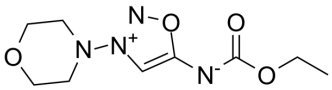
Molsidomine

Cat. No.:	HY-B1069
CAS No.:	25717-80-0
Molecular Formula:	$C_9H_{14}N_4O_4$
Molecular Weight:	242.23
Target:	Drug Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 2 years -20°C 1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (412.83 mM)

H_2O : 25 mg/mL (103.21 mM; Need ultrasonic)

* "≥" means soluble, but saturation unknown.

	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	**1 mM**	4.1283 mL	20.6415 mL	41.2831 mL
	5 mM	0.8257 mL	4.1283 mL	8.2566 mL
	10 mM	0.4128 mL	2.0642 mL	4.1283 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: PBS
   Solubility: 25 mg/mL (103.21 mM); Clear solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (10.32 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (10.32 mM); Clear solution
4. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (10.32 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Molsidomine is an orally active, long acting vasodilating drug, metabolized in the liver to the active metabolite linsidomine, which is an unstable compound that releases nitric oxide (NO) upon decay as the actual vasodilating compound.

Caution: Product has not been fully validated for medical applications. For research use only.

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