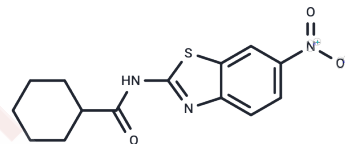


HUP30

Chemical Properties

CAS No. : 312747-21-0
 Formula: C₁₄H₁₅N₃O₃S
 Molecular Weight: 305.35
 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	HUP30 is a potent vasodilating agent. HUP30 can stimulate soluble guanylyl cyclase, activate K ⁺ channels, and block extracellular Ca ²⁺ influx.
Targets(IC50)	Calcium Channel,Potassium Channel
In vitro	HUP30 inhibits phenylephrine induced aortic contraction with an IC ₅₀ value of 3.9 μ M. HUP30 (100 μ M) increases cGMP levels in the aorta stimulated by adrenaline. HUP30 has an antispasmodic effect on the 25/30 mM K ⁺ -constricted rat aortic ring, with an IC ₅₀ value of 7.5 μ M. HUP30 (3-100 μ M) inhibits phenylephrine induced extracellular Ca ²⁺ influx and Ca ²⁺ mobilization. HUP30 (10-100 μ M) inhibits current in single tailed artery muscle cells [1].

Solubility Information

Solubility	DMSO: 18 mg/mL (58.95 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 1.5 mg/mL (4.91 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2749 mL	16.3747 mL	32.7493 mL
5 mM	0.655 mL	3.2749 mL	6.5499 mL
10 mM	0.3275 mL	1.6375 mL	3.2749 mL
50 mM	0.0655 mL	0.3275 mL	0.655 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

Fusi F, et al. 2-Aryl- and 2-amido-benzothiazoles as multifunctional vasodilators on rat artery preparations. Eur J Pharmacol. 2013 Aug 15;714(1-3):178-87.

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