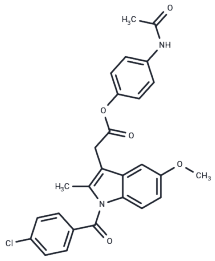
Data Sheet (Cat.No.T10355)

TargetMol

Apyramide

Chemical Properties



CAS No. : 68483-33-0

Formula: C27H23ClN2O5

Molecular Weight: 490.93

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	Apyramide is an anti-inflammatory agent (NSAID) that acts as a prodrug of indomethacin, a potent, blood-brain permeable, and nonselective inhibitor of COX1 and COX2.
Targets(IC50)	COX
In vivo	Apyramide demonstrates significantly lower toxicity in rats and mice compared to indomethacin when administered orally or via i.p. route. It shows anti-inflammatory effects on carrageenin-induced cotton pellet granuloma, paw edema, and adjuvant arthritis, as well as antipyretic and analgesic activities [1].

Solubility Information

Solubility	DMSO: 55 mg/mL (112.03 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.037 mL	10.1848 mL	20.3695 mL
5 mM	0.4074 mL	2.037 mL	4.0739 mL
10 mM	0.2037 mL	1.0185 mL	2.037 mL
50 mM	0.0407 mL	0.2037 mL	0.4074 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

Sauvaire D, et al. Pharmacological activity and toxicity of apyramide: comparison with non-steroidal anti-inflammatory agents. Drugs Exp Clin Res. 1987;13(5):247-52.
M Cociglio, et al. Pharmacokinetics of an indomethacin pro-drug: apyramide after intravenous administration in dog. Eur J Drug Metab Pharmacokinet. Oct-Dec 1991;16(4):275-80.

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