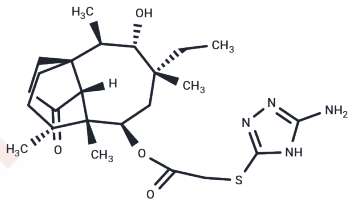
Data Sheet (Cat.No.T37183)

TargetMol

Azamulin

Chemical Properties



CAS No. : 76530-44-4

Formula: C24H38N4O4S

Molecular Weight: 478.65

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	Azamulin is a selective, irreversible inhibitor of cytochrome P450 (CYP) 3A isoforms (IC50 values range from 26 to 240 nM for CYP3A4 and CYP3A4/5 from different sources). [1] It is at least 50-fold less potent against CYP2J2 and 100-fold less effective against all other CYP isoforms. [1] Azamulin potently blocks the hydroxylation of testosterone and midazolam by CYP3A4.[2]
Targets(IC50)	Cytochromes P450

Solubility Information

Solubility	DMSO: 20 mg/mL (41.78 mM),Sonication is recommended. DMF: 20 mg/mL (41.78 mM),Sonication is recommended. Ethanol: 20 mg/mL (41.78 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0892 mL	10.446 mL	20.8921 mL
5 mM	0.4178 mL	2.0892 mL	4.1784 mL
10 mM	0.2089 mL	1.0446 mL	2.0892 mL
50 mM	0.0418 mL	0.2089 mL	0.4178 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

Stresser, D.M., Broudy, M.I., Ho, T., et al. Highly selective inhibition of human CYP3Aa in vitro by azamulin and evidence that inhibition is irreversible. Drug Metabolism and Disposition 32(1), 105-112 (2004).
Lim, H.K., Duczak, N., Jr., Brougham, K., et al. Automated screening with confirmation of mechanism-based inactivation of CYP3A4, CYP2C9, CYP2C19, CYP2D6, and CYP1A2 in pooled human liver microsomes. Drug Metabolism and Disposition 33(8), 1211-1219 (2005).

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