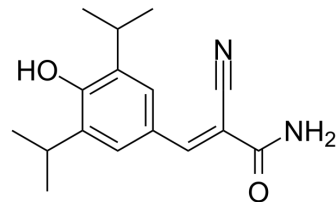


ST271

Cat. No.:	HY-103097		
CAS No.:	106392-48-7		
Molecular Formula:	C ₁₆ H ₂₀ N ₂ O ₂		
Molecular Weight:	272.34		
Target:	Phospholipase		
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 : 50 mg/mL (183.59 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	3.6719 mL	18.3594 mL	36.7188 mL
		5 mM	0.7344 mL	3.6719 mL	7.3438 mL
10 mM		0.3672 mL	1.8359 mL	3.6719 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (9.18 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (9.18 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	ST271 is a potent inhibitor of protein tyrosine kinase (PTK), inhibits phospholipase D activation stimulated by fMet-Leu-Phe and PAF, with IC ₅₀ s of 6.7 and 9 μM, respectively.
IC ₅₀ & Target	IC ₅₀ : 6.7 μM (phospholipase D, stimulated by fMet-Leu-Phe), 9 μM (phospholipase D, stimulated by PAF) ^[3]
In Vitro	ST271 partially inhibits peptide phosphorylation in the membrane preparation and in permeabilized platelets ^[1] . ST271 (100 μM) causes complete inhibition of formation of inositol phosphates induced by FcγRII cross-linking, but also induces a small (< 30%) but significant inhibition of the response to thrombin and U46619 ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Martinson EA, et al. Inhibition of phospholipase D of human platelets by protein tyrosine kinase inhibitors. *Cell Mol Biol (Noisy-le-grand)*. 1994 Jul;40(5):627-34.
- [2]. Blake RA, et al. Fc gamma receptor II stimulated formation of inositol phosphates in human platelets is blocked by tyrosine kinase inhibitors and associated with tyrosine phosphorylation of the receptor.
- [3]. Uings IJ, et al. Tyrosine phosphorylation is involved in receptor coupling to phospholipase D but not phospholipase C in the human neutrophil. *Biochem J*. 1992 Feb 1;281 (Pt 3):597-600.
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Caution: Product has not been fully validated for medical applications. For research use only.

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