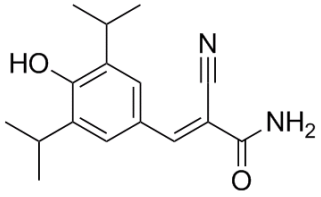
ST271

Cat. No.:	HY-103097
CAS No.:	106392-48-7
Molecular Formula:	$C_{16}H_{20}N_2O_2$
Molecular Weight:	272.34
Target:	Phospholipase
Pathway:	Metabolic Enzyme/Protease
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 110 mg/mL (403.91 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

Concentration \ Solvent \ Mass	1 mg	5 mg	10 mg
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.

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

IC50: 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.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA