

Product Data Sheet

Product Name: ST271
Cat. No.: GC30180

Chemical Properties

Cas. No. 106392-48-7

SMILES O=C(N)/C(C#N)=C/C1=CC(C(C)C)=C(O)C(C(C)C)=C1

Formula $C_{16}H_{20}N_2O_2$ M.Wt 272.34

Solubility DMSO : ≥ 110 mg/mL (403.91 mM) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37°C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

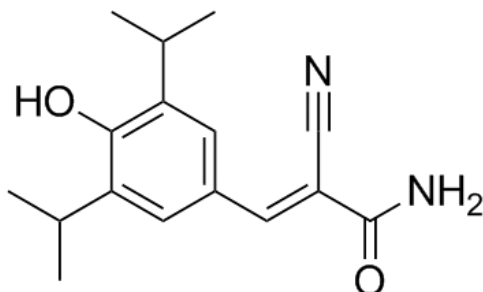
Caution: Product has not been fully validated for medical applications. For research use only.

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Structure



Background

ST271 is a potent inhibitor of protein tyrosine kinase (PTK), inhibits phospholipase D activation stimulated by fMet-Leu-Phe and PAF, with IC₅₀s of 6.7 and 9 μM, respectively.

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].

[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

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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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