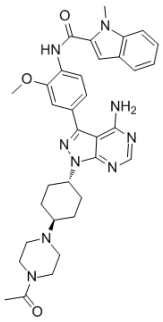
A-770041

Cat. No.:	HY-11011
CAS No.:	869748-10-7
Molecular Formula:	$C_{34}H_{39}N_9O_3$
Molecular Weight:	621.73
Target:	Src
Pathway:	Protein Tyrosine Kinase/RTK
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 : ≥ 100 mg/mL (160.84 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	1.6084 mL	8.0421 mL	16.0842 mL
5 mM	0.3217 mL	1.6084 mL	3.2168 mL
10 mM	0.1608 mL	0.8042 mL	1.6084 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (4.02 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (4.02 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (4.02 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

A-770041 is selective and orally active Src-family Lck inhibitor; A-770041 is a 147 nM inhibitor of Lck (1 mM ATP) and is 300-fold selective against Fyn, the other Src family kinase involved in T-cell signaling.IC50 value: 147 nMTarget: Lck

REFERENCES

[1]. Stachlewitz RF, et al.A-770041, a novel and selective small-molecule inhibitor of Lck, prevents heart allograft rejection.J Pharmacol Exp Ther. 2005 Oct;315(1):36-41.

[2]. Andrew Burchat, et al. Discovery of A-770041, a src-family selective orally active lck inhibitor that prevents organ allograft rejection Bioorganic & Medicinal Chemistry Letters Volume 16, Issue 1, 1 January 2006, Pages 118-122

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