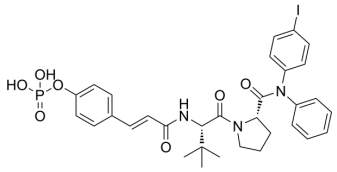
STAT6-IN-3

Cat. No.:	HY-153992
CAS No.:	371919-80-1
Molecular Formula:	$C_{32}H_{35}IN_3O_7P$
Molecular Weight:	731.51
Target:	STAT
Pathway:	JAK/STAT Signaling; Stem Cell/Wnt
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 (136.70 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.3670 mL	6.8352 mL	13.6704 mL
	5 mM	0.2734 mL	1.3670 mL	2.7341 mL
	10 mM	0.1367 mL	0.6835 mL	1.3670 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 (3.42 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (3.42 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (3.42 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

STAT6-IN-3 (Compound 18a) is a STAT6 inhibitor (IC_{50}= 44 nM). STAT6-IN-3 targets the Src Homology 2 (SH2) domain of STAT6. STAT6-IN-3 can be used for research of inflammation such as asthma[1].

REFERENCES

[1]. Mandal PK, et al. Targeting the Src Homology 2 (SH2) Domain of Signal Transducer and Activator of Transcription 6 (STAT6) with Cell-Permeable, Phosphatase-Stable Phosphopeptide Mimics Potently Inhibits Tyr641 Phosphorylation and Transcriptional Activity. J Med Chem. 2015 Nov 25;58(22):8970-84.

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