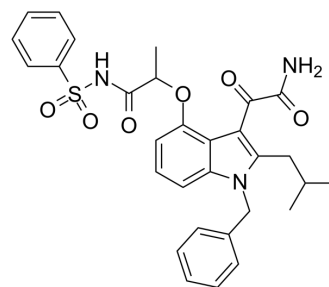


ROC-0929

Cat. No.:	HY-145384		
CAS No.:	1048660-43-0		
Molecular Formula:	C ₃₀ H ₃₁ N ₃ O ₆ S		
Molecular Weight:	561.65		
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 : 12.5 mg/mL (22.26 mM; ultrasonic and warming and heat to 60°C)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.7805 mL	8.9023 mL	17.8047 mL
	5 mM	0.3561 mL	1.7805 mL	3.5609 mL
	10 mM	0.1780 mL	0.8902 mL	1.7805 mL

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

BIOLOGICAL ACTIVITY

Description

ROC-0929 (compound 13a) is a potent and selective inhibitor of secreted phospholipases A₂ (sPLA₂s) with an IC₅₀ of 80 nM, specially targeting hGX. ROC-0929 inhibits the phosphorylation of ERK1/2 and p-38. Secreted phospholipases A₂ (sPLA₂s) are a family of disulfide-rich, Ca²⁺-dependent enzymes that hydrolyze the sn-2 position of glycerophospholipids to release a fatty acid and a lysophospholipid. ROC-0929 has the potential for researching inflammation related diseases^[1].

IC₅₀ & Target

80 nM (hGX)^[1]

REFERENCES

[1]. Oslund RC, et al. Highly specific and broadly potent inhibitors of mammalian secreted phospholipases A₂. J Med Chem. 2008;51(15):4708-4714.

[2]. Hallstrand TS, et al. Endogenous secreted phospholipase A₂ group X regulates cysteinyl leukotrienes synthesis by human eosinophils. J Allergy Clin Immunol. 2016;137(1):268-277.e8.

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

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