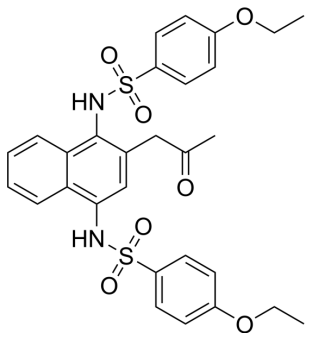
K67

Cat. No.:	HY-111126
CAS No.:	2046250-48-8
Molecular Formula:	$C_{29}H_{30}N_2O_7S_2$
Molecular Weight:	582.69
Target:	Keap1-Nrf2; p62
Pathway:	NF-κB; Autophagy
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 (171.62 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.7162 mL	8.5809 mL	17.1618 mL
	5 mM	0.3432 mL	1.7162 mL	3.4324 mL
	10 mM	0.1716 mL	0.8581 mL	1.7162 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 10 mg/mL (17.16 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

K67 specifically inhibits the interaction between Keap1 and S_{349}-phosphorylated p62. K67 prevents p-p62 from blocking the binding of Keap1 and Nrf2. K67 effectively inhibits the proliferation of HCC cultures with high cellular S_{351}-phosphorylated p62 by restoring the ubiquitination and degradation of Nrf2 driven by Keap1[1].

REFERENCES

[1]. Saito T, et al. p62/Sqstm1 promotes malignancy of HCV-positive hepatocellular carcinoma through Nrf2-dependent metabolic reprogramming. Nat Commun. 2016 Jun 27;7:12030.

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

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