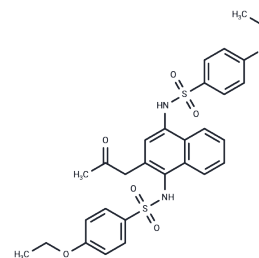


K67

Chemical Properties

CAS No. :	2046250-48-8
Formula:	C ₂₉ H ₃₀ N ₂ O ₇ S ₂
Molecular Weight:	582.69
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	K67 competitively inhibits the interaction between Nrf2-ETGE and Keap1, inhibits the proliferation of HCC cells with high expression of S351 phosphorylated p62, and can be used to study cancer.
Targets(IC50)	Nrf2,p62
In vitro	METHODS: Huh7 cells expressing S351E were treated with K67 (50 μM, 4 h), and the cells were treated with or without lactacystin (10 μM) for 8 hours. Immunoblot analyses were performed for immunosuppressants with anti-Nrf2 antibodies. RESULTS: Treatment of Huh1 cells with K67 greatly inhibited the interaction between p62 phosphorylation and Keap1, and K67 significantly promoted ubiquitination of Nrf2. [1]

Solubility Information

Solubility	DMSO: 80 mg/mL (137.29 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 5 mg/mL (8.58 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.0343 mL	0.1716 mL	0.3432 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

- 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.
- Panzuto F, Cicchese N, Partelli S, Rinzivillo M, Capurso G, Merola E, Manzoni M, Pucci E, Iannicelli E, Pillozzi E, Rossi M, Doglioni C, Falconi M, Delle Fave G. Impact of Ki67 re-assessment at time of disease progression in patients with pancreatic neuroendocrine neoplasms. *PLoS One.* 2017 Jun 23;12(6):e0179445. doi: 10.1371/journal.pone.0179445. eCollection 2017. PubMed PMID: 28644861; PubMed Central PMCID: PMC5482443.
- Hu W, Coomer TD, Loka DA, Oosterhuis DM, Zhou Z. Potassium deficiency affects the carbon-nitrogen balance in cotton leaves. *Plant Physiol Biochem.* 2017 Jun;115:408-417. doi: 10.1016/j.plaphy.2017.04.005. Epub 2017 Apr 6. PubMed PMID: 28441628.
- Zhang H, Li M, Li J, Wang G, Li F, Xu D, Liu Y, Xiong M. A key esterase required for the mineralization of quizalofop-p-ethyl by a natural consortium of *Rhodococcus* sp. JT-3 and *Brevundimonas* sp. JT-9. *J Hazard Mater.* 2017 Apr 5; 327:1-10. doi: 10.1016/j.jhazmat.2016.12.038. Epub 2016 Dec 21. PubMed PMID: 28027504.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481