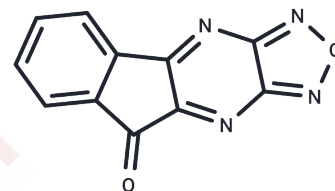


## SMER3

## Chemical Properties

CAS No. :	67200-34-4
Formula:	C <sub>11</sub> H <sub>4</sub> N <sub>4</sub> O <sub>2</sub>
Molecular Weight:	224.18
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	SMER3 is an inhibitor of the Skp1-Cullin-F-box (SCF)(Met30) ubiquitin ligase, a member of the SCF E3-ligase family, which regulates diverse cellular processes including transcription, cell-cycle control and immune response.
Targets(IC50)	E1/E2/E3 Enzyme,Ligands for E3 Ligase
In vitro	SMER 3 and rapidly increased PFKFB3 protein levels. Accordingly, ubiquitin-bound PFKFB3 was lower in E2- or G1-treated HUVECs. Both agents increased deubiquitinase USP19 levels through GPER signaling[1].
In vivo	SMER 3 diminishes binding of the F-box subunit Met30 to the SCF core complex in vivo and show evidence for SMER 3 directly binding to Met30[2].

## Solubility Information

Solubility	DMSO: 8 mg/mL (35.69 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.4607 mL	22.3035 mL	44.607 mL
5 mM	0.8921 mL	4.4607 mL	8.9214 mL
10 mM	0.4461 mL	2.2304 mL	4.4607 mL
50 mM	0.0892 mL	0.4461 mL	0.8921 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

Boscaro C, et al. Non-genomic mechanisms in the estrogen regulation of glycolytic protein levels in endothelial cells. FASEB J. 2020 Sep;34(9):12768-12784.

Mariam Aghajan, et al. Chemical genetics screen for enhancers of rapamycin identifies a specific inhibitor of an SCF family E3 ubiquitin ligase. Nat Biotechnol. 2010 Jul;28(7):738-42.

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