



Xcess Biosciences Inc.

7144 N Harlem Ave #169
Chicago, IL 60631 USA

<http://www.xcessbio.com>

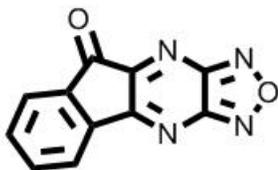
Toll free: 1-866-706-2330

Fax: 1-619- 810-0718

Email: info@xcessbio.com

SCF family E3 Ubiquitin Ligase Inhibitor –SMER3

Chemical Name: 9H-indeno[1,2-b][1,2,5]oxadiazolo[3,4-e]pyrazin-9-one



Molecular Weight:	224.18
Formula:	C ₁₁ H ₄ N ₄ O ₂
Purity:	≥98%
CAS#:	67200-34-4
Solubility:	DMSO up to 50 mM
Storage	Powder: 4 °C 1 year DMSO: 4 °C 3 months -20 °C 1 year

Biological Activity:

SMER3 is a potent and selective yeast SCF family E3 ubiquitin ligase inhibitor, also a small-molecule enhancers of rapamycin. It inhibits SCF(Met30), but not the closely related SCF(Cdc4). SMER3 can diminish binding of the F-box subunit Met30 to the SCF core complex in cell, induces the expression of MET genes and blocks cell proliferation.

How to Use:

In vitro: SMER3 was used at 10-20 μM final concentration in various in vitro assays.

In vivo: n/a

Reference:

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

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