

Product Name: SK 575

Catalog No.: 7583

Batch No.: 1

CAS Number: 2523016-96-6

IUPAC Name: *N*-(2-((2-(2,6-Dioxopiperidin-3-yl)-1,3-dioxoisindolin-4-yl)amino)ethyl)-12-(4-(2-fluoro-5-((4-oxo-3,4-dihydrophthalazin-1-yl)methyl)benzoyl)piperazin-1-yl)-12-oxododecanamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₄₇H₅₃FN₈O₈·³/₄H₂O

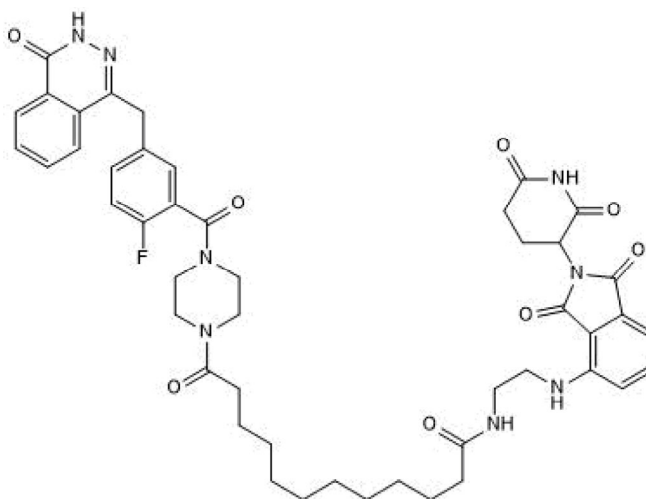
Batch Molecular Weight: 890.5

Physical Appearance: Yellow solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.7% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	63.39	6.17	12.58
Found	63.22	6.13	12.44

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

SK 575 is a potent PARP1 Degradator (PROTAC®; DC₅₀ ≤ 6.72 nM, >99% PARP1 degradation at 10 nM). It comprises the PARP1/2 inhibitor Olaparib (Cat. No. 7579), joined by a linker to cereblon/cullin 4A ligand Thalidomide (Cat. No. 0652). SK 575 inhibits the growth of various cancer cell lines bearing BRCA1/2 mutations with IC₅₀ values in the nanomolar range. It effectively reduces PARP1 protein levels in mouse SW620 tumor xenograft models. SK 575 dose-dependently potentiates the antitumor activity of Temozolomide (Cat. No. 2706) and Cisplatin (Cat. No. 2251) in vivo. PARP antibodies validated for Simple Western™ (automated Western ... Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

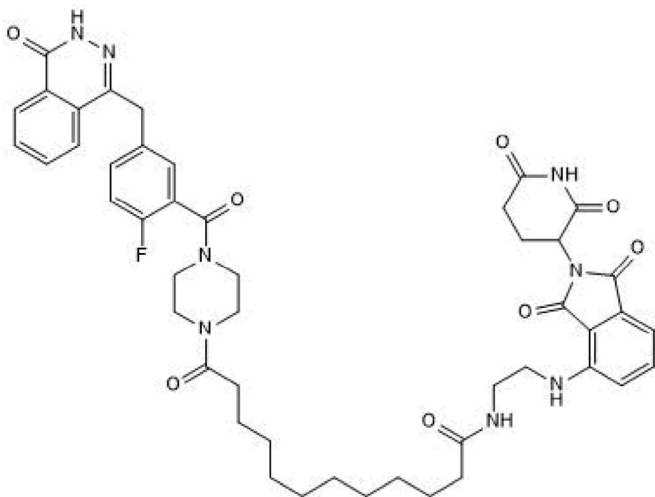
Batch Molecular Formula: C₄₇H₅₃FN₈O₈·³/₄H₂O

Batch Molecular Weight: 890.5

Physical Appearance: Yellow solid

Minimum Purity: ≥98%

Batch Molecular Structure:



References:

Cao *et al* (2020) Discovery of SK-575 as a highly potent and efficacious Proteolysis-Targeting Chimera Degradator of PARP1 for treating cancers. *J.Med.Chem.* **63** (19) 11012. PMID: 32924477.

Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

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