

Product Name: PT-65

Catalog No.: 7651

Batch No.: 1

CAS Number: 2721998-87-2

IUPAC Name: 3-Amino-6-(4-((4-(4-(1-(17-((2-(2,6-dioxopiperidin-3-yl)-1,3-dioxoisindolin-4-yl)amino)-3,6,9,12,15-pentaoxaheptadecyl)-1*H*-1,2,3-triazol-4-yl)butyl)piperazin-1-yl)sulfonyl)phenyl)-*N*-(pyridin-3-yl)pyrazine-2-carboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₅₁H₆₃N₁₃O₁₂S.H₂O

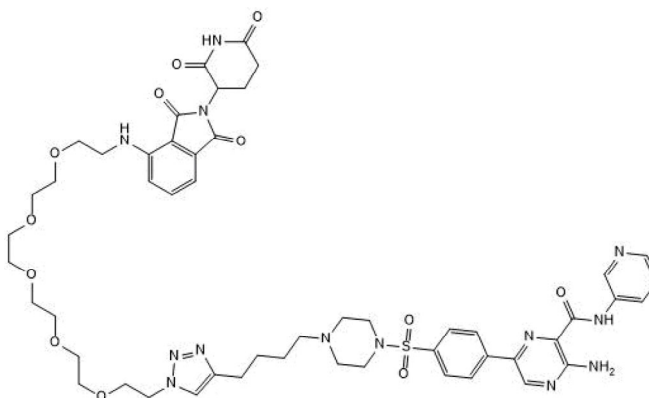
Batch Molecular Weight: 1100.21

Physical Appearance: Yellow solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.4% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	55.68	5.96	16.55
Found	55.32	5.84	16.32

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

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel: +1 612 379 2956

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Description:

PT-65 is a potent GSK3 Degradator (PROTAC®) (DC₅₀ = 28.3 nM and 34.2 nM against GSK3α and GSK3β, respectively, in SH-SY5Y cells). It suppresses Okadaic acid (Cat. No. 1136) -induced tau hyperphosphorylation and ameliorates learning and memory impairments in rat models of Alzheimer's disease. GSK3β antibodies validated for Western Blot also available: Catalog # NBP1-47470 and AF2157. PROTAC® is a registered trademark of Arvinas Operations, Inc., and is used under license. Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

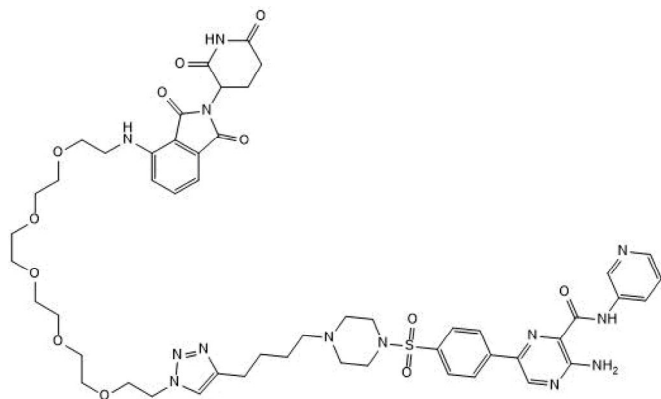
Batch Molecular Formula: C₅₁H₆₃N₁₃O₁₂S.H₂O

Batch Molecular Weight: 1100.21

Physical Appearance: Yellow solid

Minimum Purity: ≥98%

Batch Molecular Structure:



References:

Qu *et al* (2021) Discovery of PT-65 as a highly potent and selective proteolysis-targeting chimera degrader of GSK3 for treating Alzheimer's disease. *Eur.J.Med.Chem.* **226** 113889. PMID: 34649182.

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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techsupport@bio-techne.com

North America

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