

Product Name: PROTAC®(H-PGDS)-7

Catalog No.: 8004

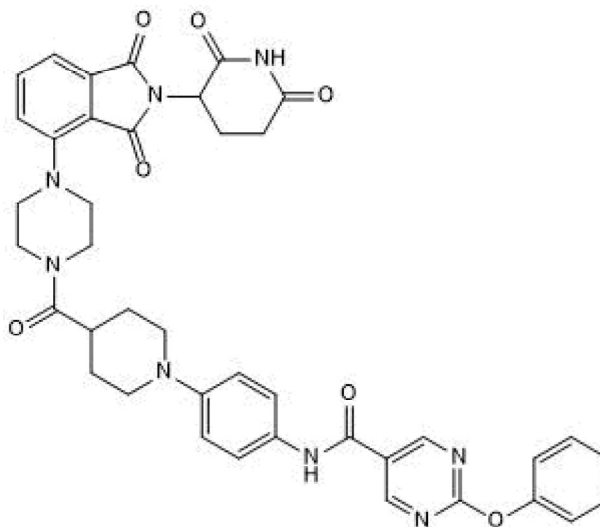
Batch No.: 1

CAS Number: 2761281-50-7

IUPAC Name: *N*-[4-[4-[[4-[2-(2,6-Dioxo-3-piperidiny)]-2,3-dihydro-1,3-dioxo-1*H*-isoindol-4-yl]-1-piperazinyl]carbonyl]-1-piperidiny]phenyl]-2-phenoxy-5-pyrimidinecarboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₄₀ H ₃₈ N ₈ O ₇ .H ₂ O
Batch Molecular Weight:	760.81
Physical Appearance:	Yellow solid
Solubility:	DMSO to 100 mM
Storage:	Store at -20°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

HPLC:	Shows 98.1% purity
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure
Microanalysis:	

	Carbon	Hydrogen	Nitrogen
Theoretical	63.15	5.3	14.73
Found	62.31	5.32	14.56

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

Product Name: PROTAC®(H-PGDS)-7

Catalog No.: 8004

1

CAS Number: 2761281-50-7

IUPAC Name: *N*-[4-[4-[4-[2-(2,6-Dioxo-3-piperidiny)]-2,3-dihydro-1,3-dioxo-1*H*-isoindol-4-yl]-1-piperazinyl]carbonyl]-1-piperidiny]phenyl]-2-phenoxy-5-pyrimidinecarboxamide

Description:

PROTAC®(H-PGDS)-7 is a potent Degradator of hematopoietic prostaglandin D₂ synthase (H-PGDS; DC₅₀ = 17pM after 24 hours). Comprises the H-PGDS inhibitor TFC-007 (Cat. No. 5108) directly linked to E3 ligase cereblon. Suppresses prostaglandin D₂ production in vitro and in vivo. PROTAC® (H-PGDS)-8 negative control (Cat. No. 8005) also available. PROTAC® is a registered trademark of Arvinas Operations, Inc., and is used under license.

Physical and Chemical Properties:

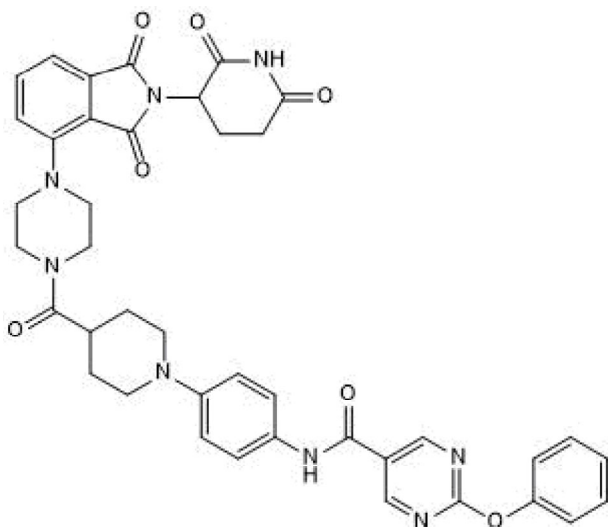
Batch Molecular Formula: C₄₀H₃₈N₈O₇.H₂O

Batch Molecular Weight: 760.81

Physical Appearance: Yellow solid

Minimum Purity: ≥98%

Batch Molecular Structure:



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.

Licensing Information:

Sold under license from National Institute of Health Sciences, Japan and Tsuzuki Gakuen.

References:

Osawa et al (2023) CRBN ligand expansion for hematopoietic prostaglandin D₂ synthase (H-PGDS) targeting PROTAC design and their in vitro ADME profiles. *Bioorg.Med.Chem.* **84** 117259. PMID: 37018877.

Murakami et al (2022) Structure-activity relationship study of PROTACs against hematopoietic prostaglandin D₂ synthase. *RSC Med.Chem.* **13** 1495. PMID: 36561070.

Yokoo et al (2021) Discovery of a highly potent and selective Degradator targeting hematopoietic prostaglandin D synthase via in silico design. *J.Med.Chem.* **64** 15868. PMID: 34652145.

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