

Product Name: dTAG-47

Catalog No.: 7530

Batch No.: 1

CAS Number: 2265886-81-3

IUPAC Name: (1*R*)-3-(3,4-Dimethoxyphenyl)-1-(2-(2-((8-((2-(2,6-dioxopiperidin-3-yl)-1,3-dioxoisindolin-5-yl)amino)octyl)amino)-2-oxoethoxy)phenyl)propyl (2*S*)-1-((*S*)-2-(3,4,5-trimethoxyphenyl)butanoyl)piperidine-2-carboxylate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₅₉H₇₃N₅O₁₄·¼H₂O

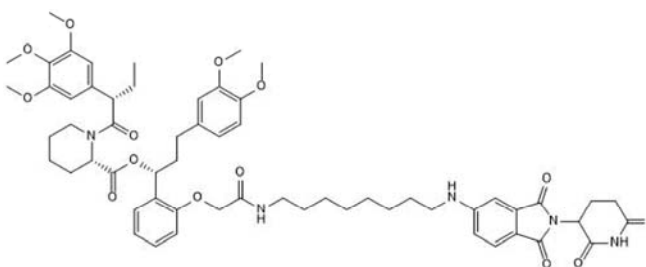
Batch Molecular Weight: 1080.75

Physical Appearance: Yellow solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.3% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	65.57	6.86	6.48
Found	65.26	6.8	6.28

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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:

dTAG-47 is a degrader targeting mutant FKBP12^{F36V} fusion proteins. Comprises a ligand selective for F36V single-point mutated FKBP12, a linker and a cereblon-binding ligand. Application of dTAG-47 induces rapid, reversible and selective degradation of FKBP12^{F36V} fusion proteins in vitro and in vivo. dTAG is generalizable to a range of fusion proteins; useful as an alternative to genetic methods for target validation. See also dTAG-13 and dTAG-7. Negative control (Cat. No. 7531) also available. FKBP12^{F36V} can be expressed as a fusion with a target protein of interest using genome engineering techniques, via transgene expression or CRISPR-med... Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

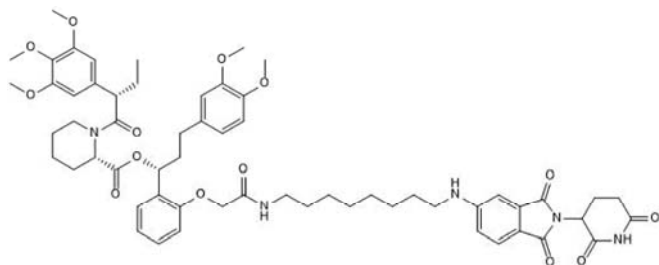
Batch Molecular Formula: C₅₉H₇₃N₅O₁₄.1/4H₂O

Batch Molecular Weight: 1080.75

Physical Appearance: Yellow solid

Minimum Purity: ≥97%

Batch Molecular Structure:



References:

Layden et al (2021) A protocol for rapid degradation of endogenous transcription factors in mammalian cells and identification of direct regulatory targets. *STAR Protoc.* **2** 100530. PMID: 34041503.

Popay et al (2021) MYC regulates ribosome biogenesis and mitochondrial gene expression programs through its interaction with host cell factor-1. *Elife* **10** e60191. PMID: 33416496.

Bryan et al (2020) WDR5 is a conserved regulator of protein synthesis gene expression. *Nucleic Acids Res.* **48** 2924. PMID: 31996893.

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. Our standard recommendations are:

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 Dana-Farber Cancer Institute

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North America

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Tel:+1 612 379 2956