

Product Name: DD 03-171

Catalog No.: 7160

Batch No.: 1

CAS Number: 2366132-45-6

IUPAC Name: 4-(1,1-Dimethylethyl)-N-[3-[6-[4-[4-[6-[2-[[2-(2,6-dioxo-3-piperidiny)-2,3-dihydro-1,3-dioxo-1H-isoindol-4-yl]amino]acetyl]amino]hexyl]-1-piperazinyl]carbonyl]phenyl]amino]-4,5-dihydro-4-methyl-5-oxo-2-pyrazinyl]-2-methylphenyl]benzamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₅₅H₆₂N₁₀O₈·2H₂O

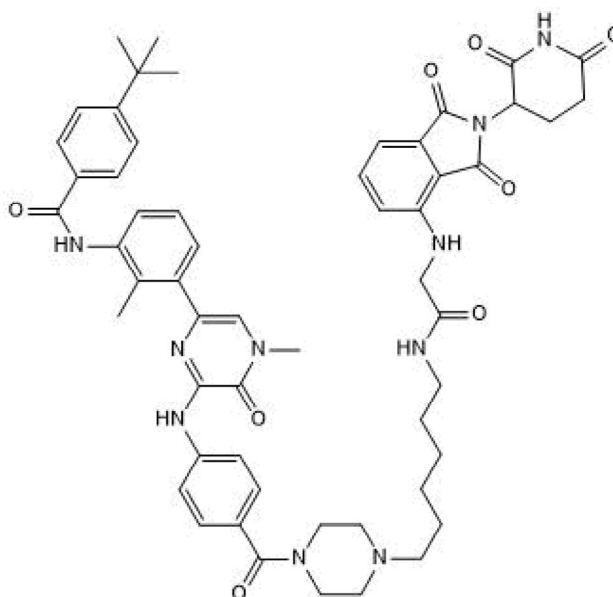
Batch Molecular Weight: 1027.19

Physical Appearance: Yellow solid

Solubility: DMSO to 50 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.0% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	64.31	6.48	13.64
Found	64.06	6.32	13.62

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

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Description:

DD 03-171 is a potent and selective BTK Degradator (PROTAC®) (IC₅₀ = 5.1 nM); degrades BTK in a proteasome- and CRBN-dependent manner. Suppresses BTK signaling and proliferation in mantle cell lymphoma (MCL) cells by degrading BTK, IKFZ1, and IKFZ3 (3 validated targets in B-cell malignancies). Also degrades Ibrutinib (Cat. No. 6813) -resistant C481S-BTK mutant cancer cells. Exhibits no binding against a panel of 468 kinases at 1 μM. Reduces tumor burden and extends survival in lymphoma patient-derived xenograft models. BTK antibodies validated for Western Blot also available: Catalog # MAB5807 and NBP2-02472. PROTAC® is a regis... Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

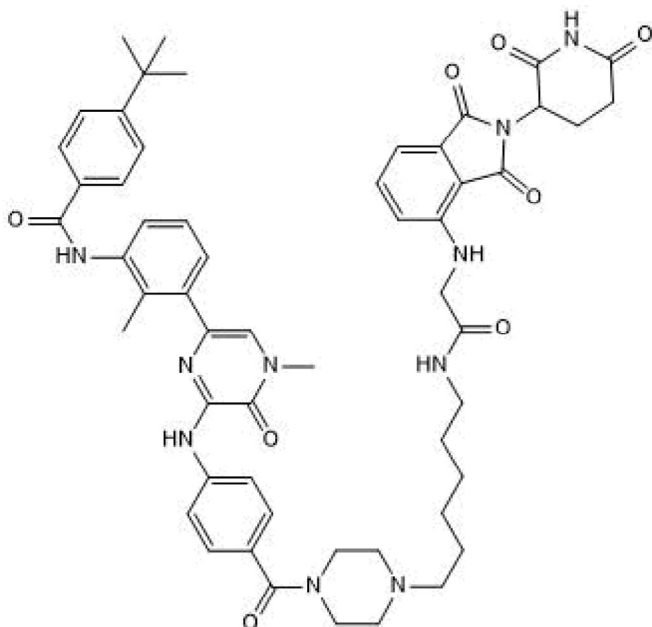
Batch Molecular Formula: C₅₅H₆₂N₁₀O₈.2H₂O

Batch Molecular Weight: 1027.19

Physical Appearance: Yellow solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 50 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 Dana-Farber Cancer Institute

References:

Dobrovolsky et al (2019) Bruton tyrosine kinase degradation as a therapeutic strategy for cancer. *Blood* **133**:952. PMID: 30545835.
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