

Product Name: SJ 10542

Catalog No.: 7727

Batch No.: 1

CAS Number: 2789678-92-6

IUPAC Name: 4-((4-(1-(3-(Cyanomethyl)-1-(ethylsulfonyl)azetidin-3-yl)-1*H*-pyrazol-4-yl)-7*H*-pyrrolo[2,3-*d*]pyrimidin-2-yl)amino)-*N*-(3-(4-(4-(2,6-dioxopiperidin-3-yl)phenyl)piperazin-1-yl)propyl)benzamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₄₁H₄₆N₁₂O₅S·½H₂O

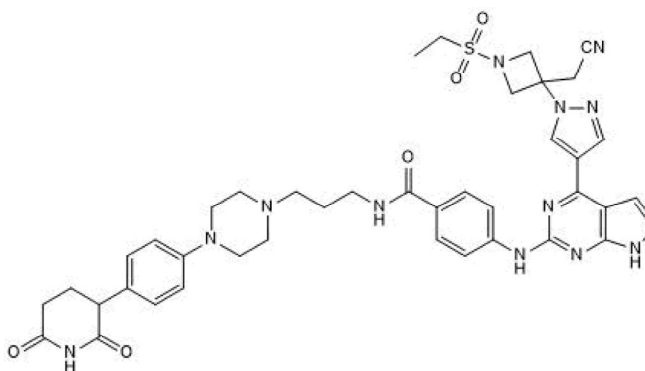
Batch Molecular Weight: 827.97

Physical Appearance: Pale yellow solid

Solubility: DMSO to 50 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 97.7% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	59.48	5.72	20.3
Found	58.7	5.62	19.92

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

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Description:

SJ 10542 is a potent and selective JAK2/3 Degradator (PROTAC®) (DC₅₀ values are 11 nM and 14 nM for JAK3 and JAK2, respectively), it uses a phenyl glutarimide (PG) ligand as the cereblon (CRBN) recruiter. SJ 10542 displays high selectivity over GSPT1 and other members of the JAK family. SJ 10542 is active in cytotoxicity assays with PDX models (IC₅₀ values <120 nM). JAK3 antibody validated for Western Blot also available: Catalog # MAB4699. 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:

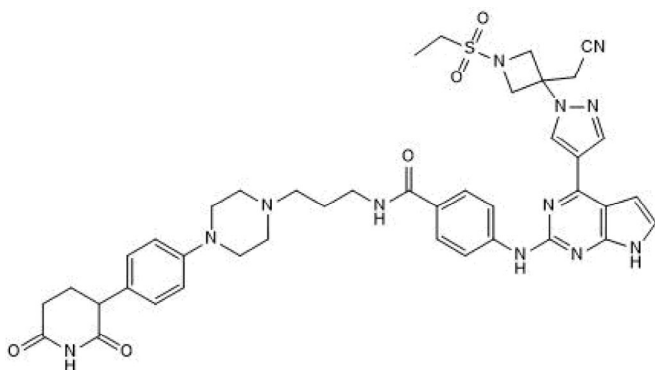
Batch Molecular Formula: C₄₁H₄₆N₁₂O₅S.½H₂O

Batch Molecular Weight: 827.97

Physical Appearance: Pale yellow solid

Minimum Purity: ≥97%

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 St. Jude Children's Research Hospital

References:

Alcock et al (2022) Development of potent and selective Janus Kinase 2/3 directing PG-PROTACs. ACS Med.Chem.Lett. **13** 475. PMID: 35300081.

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