

Product Name: C25-140

Catalog No.: 7715

Batch No.: 1

CAS Number: 1358099-18-9

IUPAC Name: 3-[3,5-Dimethyl-1-(3-methyl-1,2,4-triazolo[4,3-*b*]pyridazin-6-yl)-1*H*-pyrazol-4-yl]-1-[4-(phenylmethyl)-1-piperidiny]-1-propanone

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₆H₃₁N₇O.½H₂O

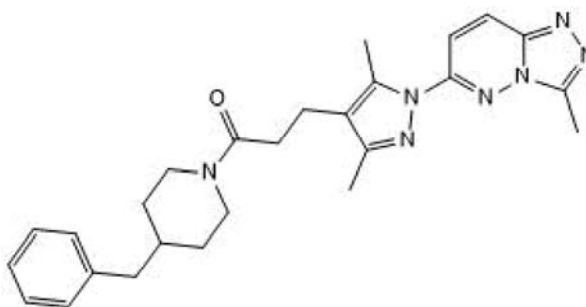
Batch Molecular Weight: 462.07

Physical Appearance: Off-white solid

Solubility: DMSO to 50 mM
ethanol to 10 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.8% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	67.58	6.87	21.22
Found	67.14	6.9	21.33

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Description:

C25-140 binds directly to TNF receptor-associated factor 6 (TRAF6) and inhibits its interaction with ubiquitin-conjugating enzyme Ubc13. C25-140 reduces TRAF6-Ubc13 activity and decreases NF-κB activation and inflammatory signaling in vitro. C25-140 exhibits selectivity for TRAF6 over other E3 ligases except cIAP1. In in vivo mouse models of autoimmune psoriasis and rheumatoid arthritis, the compound improves disease symptoms. The compound also suppresses the pro-inflammatory signaling activity of IL-17A and prevents its inhibitory effect on the anti-HBV action of IFN-α HepG2 cells.

Physical and Chemical Properties:

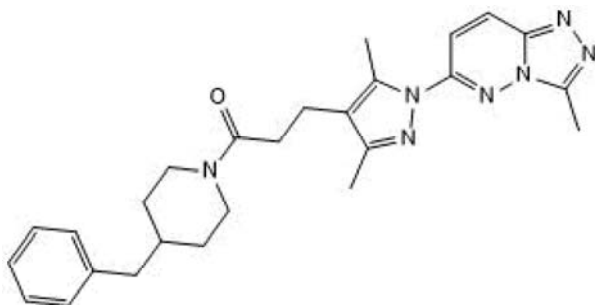
Batch Molecular Formula: C₂₆H₃₁N₇O.¼H₂O

Batch Molecular Weight: 462.07

Physical Appearance: Off-white solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 50 mM

ethanol to 10 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.

References:

Zhang et al (2022) Interleukin-17A pretreatment attenuates the anti-hepatitis B virus efficacy of interferon-alpha by reducing activation of the interferon-stimulated gene factor 3 transcriptional complex in hepatitis B virus-expressing HepG2 cells. *Virology*. **19** 28. PMID: 35144643.

Brenke et al (2018) Targeting TRAF6 E3 ligase activity with a small-molecule inhibitor combats autoimmunity. *J.Biol.Chem.* **293** 13191. PMID: 29950522.

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