

Product Name: CST 530

Catalog No.: 8065

Batch No.: 1

CAS Number: 847137-53-5

IUPAC Name: (2S,4S)-1-((S)-2-Cyclohexyl-2-((S)-2-(methylamino)propanamido)acetyl)-4-phenoxy-N-((R)-1,2,3,4-tetrahydronaphthalen-1-yl)pyrrolidine-2-carboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₃H₄₄N₄O₄ · 1³/₄H₂O

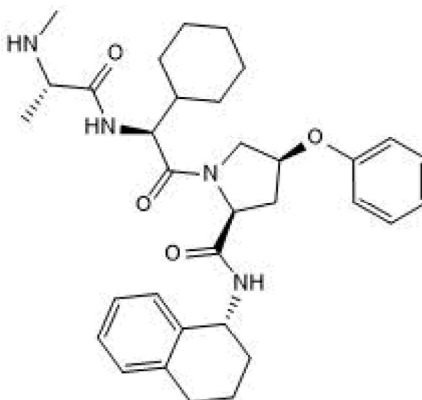
Batch Molecular Weight: 592.26

Physical Appearance: White solid

Solubility: DMSO to 100 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	66.92	8.08	9.46
Found	66.04	7.77	9.19

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Description:

CST 530 is a monovalent IAP antagonist. Induces cIAP1 and cIAP2 autodegradation in MM.1S cells (degrades cIAP1 at 0.1µM and cIAP2 at 1µM, after 16h). CST 530 reduces cell viability in a variety of cancer cell lines including SUDHL6, MOLM13 and HEL (IC₅₀ values are 170 nM, 420 nM and 450 nM respectively).

Physical and Chemical Properties:

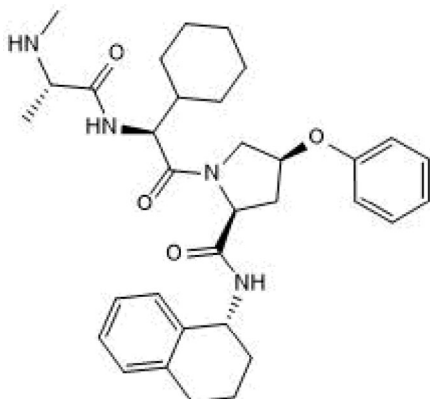
Batch Molecular Formula: C₃₃H₄₄N₄O₄·1¾H₂O

Batch Molecular Weight: 592.26

Physical Appearance: White solid

Minimum Purity: ≥97%

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.

References:

Ng *et al* (2023) Heterobifunctional ligase recruiters enable pan-degradation of inhibitor of apoptosis proteins. *J.Med.Chem.* **66** 4703. PMID: 36996313.

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