

Product Name: UNC 6934

Catalog No.: 7183

Batch No.: 1

CAS Number: 2561494-77-5

IUPAC Name: *N*-Cyclopropyl-3,4-dihydro-3-oxo-*N*-[[4-[(4-pyrimidinylamino)carbonyl]phenyl]methyl]-2*H*-1,4-benzoxazine-7-carboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₄H₂₁N₅O₄·1/4H₂O

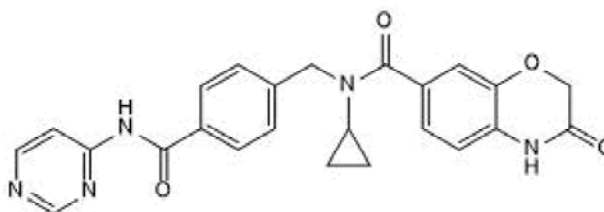
Batch Molecular Weight: 447.96

Physical Appearance: Light yellow solid

Solubility: DMSO to 20 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.1% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	64.35	4.84	15.63
Found	63.86	4.56	15.13

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Description:

UNC 6934 binds to the N-terminal proline-tryptophan-tryptophan-proline (PWWP) domain of nuclear receptor-binding SET domain-containing 2 (NSD2). UNC 6934 inhibits PWWP1 interaction with nucleosomal H3K36me2 (IC₅₀ = 104 nM) by occupying the canonical H3K36me2-binding pocket of PWWP1. It selectively binds endogenous NSD2 in cells and causes accumulation of endogenous NSD2 in the nucleolus.

Physical and Chemical Properties:

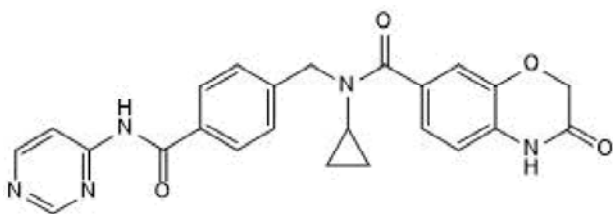
Batch Molecular Formula: C₂₄H₂₁N₅O₄·½H₂O

Batch Molecular Weight: 447.96

Physical Appearance: Light yellow solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 20 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:

This probe is supplied in conjunction with the Structural Genomics Consortium. For further characterization details, please visit the UNC 6934 probe summary on the SGC website.

References:

Dilworth et al (2022) A chemical probe targeting the PWWP domain alters NSD2 nucleolar localization. *Nat.Chem.Biol.* **18** 56. PMID: 34782742.

Sankaran et al (2016) A PWWP domain of histone-lysine N-methyltransferase NSD2 binds to dimethylated Lys-36 of histone H3 and regulates NSD2 function at chromatin. *J.Biol.Chem.* **291** 8465. PMID: 26912663.

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