

Product Name: NX 5948

Catalog No.: 8856

Batch No.: 1

CAS Number: 2649400-34-8

IUPAC Name: 3-[[4-[1-[[1-[6-[[[(3S)-2,6-Dioxo-3-piperidinyl]amino]carbonyl]-3-pyridinyl]-4-piperidinyl]methyl]-4-piperidinyl]phenyl]amino]-5-[(3R)-3-(3-methyl-2-oxo-1-imidazolidinyl)-1-piperidinyl]-2-pyrazinecarboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₄₂H₅₄N₁₂O₅ · 1½H₂O

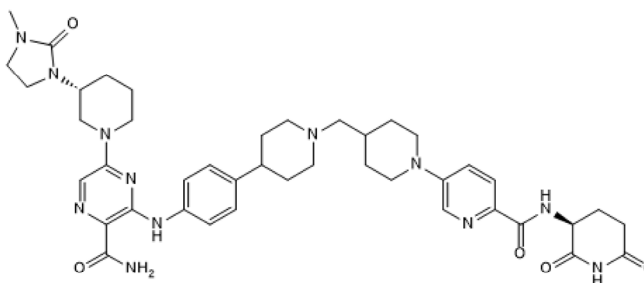
Batch Molecular Weight: 833.99

Physical Appearance: Off White solid

Solubility: DMSO to 50 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.6% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	60.49	6.89	20.15
Found	59.64	6.91	19.78

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

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Description:

NX 5948 is a potent and selective Bruton's tyrosine kinase (BTK) Degradar (PROTAC®) ($DC_{50} = <1$ nM; $D_{max} = 98\%$). Comprises a BTK binding moiety joined by a linker to cereblon (CRBN) ligand. In vitro, NX-5948 very potently, rapidly and completely degrades BTK in primary human B cells ($DC_{50} = 0.034$ nM). NX 5948 degrades BTK, inhibits tumor growth and increases survival in TMD8 xenograft mouse models of brain malignancy. Reduces inflammation and symptom severity in a mouse model of collagen-induced arthritis. NX 5948 is orally bioavailable and blood brain barrier penetrant.

Physical and Chemical Properties:

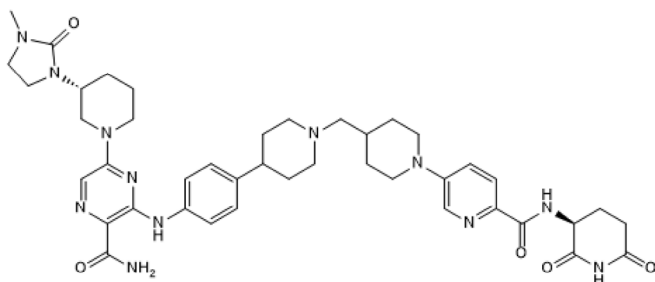
Batch Molecular Formula: $C_{42}H_{54}N_{12}O_5 \cdot 1\frac{1}{2}H_2O$

Batch Molecular Weight: 833.99

Physical Appearance: Off White solid

Minimum Purity: $\geq 98\%$

Batch Molecular Structure:



Storage: Store at $-20^{\circ}C$

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 $45-60^{\circ}C$ 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 $-20^{\circ}C$ 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 Nurix Therapeutics

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