

**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:** C<sub>42</sub>H<sub>54</sub>N<sub>12</sub>O<sub>5</sub>·1½H<sub>2</sub>O

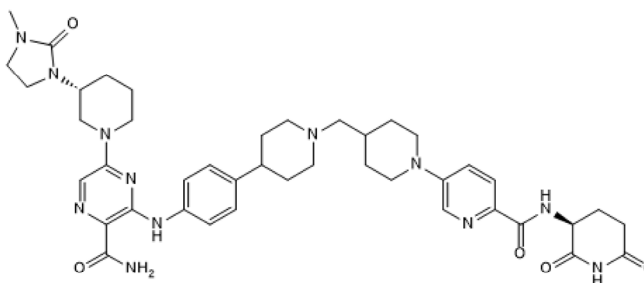
**Batch Molecular Weight:** 833.99

**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

**<sup>1</sup>H 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<sub>50</sub> = <1 nM; D<sub>max</sub> = 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<sub>50</sub> = 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:**

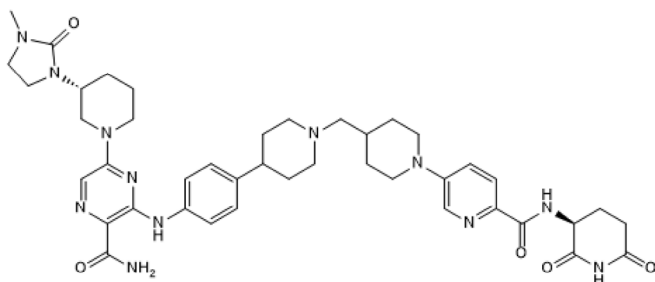
Batch Molecular Formula: C<sub>42</sub>H<sub>54</sub>N<sub>12</sub>O<sub>5</sub>·1½H<sub>2</sub>O

Batch Molecular Weight: 833.99

Physical Appearance: Off White solid

**Minimum Purity:** ≥98%

**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 Nurix Therapeutics

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