

Certificate of Analysis

www.tocris.com

Product Name:	NX 1607	Catalog No.:	8950	Batch No.:	1
CAS Number:	2573775-59-2				
IUPAC Name:	2,3-Dihydro-2-[3-[<i>cis</i> -3-methyl-1-(4-methyl-4 <i>H</i> -1,2,4-triazol-3-yl)cyclobutyl]phenyl]-6-[[<i>(3S)</i> -3-methyl-1-piperidinyl]methyl]-4-(trifluoromethyl)-1 <i>H</i> -isoindol-1-one				

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₀H₃₄F₃N₅O.

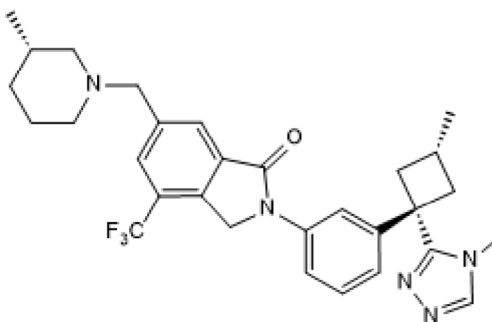
Batch Molecular Weight: 537.63

Physical Appearance: Pale yellow solid

Solubility: DMSO to 20 mM
ethanol to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.8% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	67.02	6.37	13.03
Found	67.26	6.44	12.91

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

bio-techne.com
info@bio-techne.com
techsupport@bio-techne.com

North America
Tel: (800) 343 7475

China
info.cn@bio-techne.com
Tel: +86 (21) 52380373

Europe Middle East Africa
Tel: +44 (0)1235 529449

Rest of World
www.tocris.com/distributors
Tel: +1 612 379 2956

Product Name: NX 1607

Catalog No.: 8950

Batch No.: 1

CAS Number: 2573775-59-2

IUPAC Name: 2,3-Dihydro-2-[3-[*cis*-3-methyl-1-(4-methyl-4*H*-1,2,4-triazol-3-yl)cyclobutyl]phenyl]-6-[[*(3S)*-3-methyl-1-piperidiny]methyl]-4-(trifluoromethyl)-1*H*-isoindol-1-one

Description:

NX 1607 (Cbl-b-IN-3) is an inhibitor of CBL-B (Casitas B-lineage lymphoma proto-oncogene B), a RING-type E3 ubiquitin ligase. NX 1607 acts as an intramolecular glue. In vitro, NX 1607 activates MAPK/ERK signaling pathway and enhances T-cell activation in primary T cells and Jurkat T cells. In vivo, NX 1607 decreases tumor growth in cell lymphoma models. NX 1607 is orally bioavailable.

Physical and Chemical Properties:

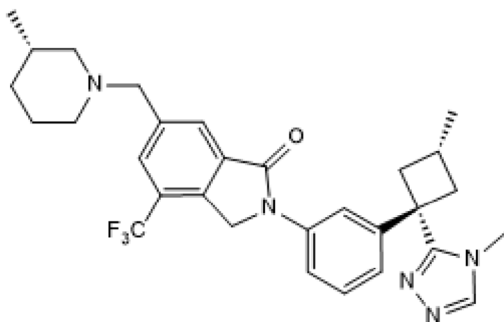
Batch Molecular Formula: C₃₀H₃₄F₃N₅O.

Batch Molecular Weight: 537.63

Physical Appearance: Pale yellow solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 20 mM
ethanol 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.

Licensing Information:

Sold under license from Nurix Therapeutics

References:

Zhu et al (2025) Cbl-b inhibitor NX-1607 activates MAPK/ERK signaling pathway and enhances T-cell activation. *J.Immunother.Cancer* **13** e011180. PMID: 40447319.

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

bio-techne.com

info@bio-techne.com
techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com
Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors
Tel: +1 612 379 2956