

Product Name: NR 7h

Catalog No.: 7177

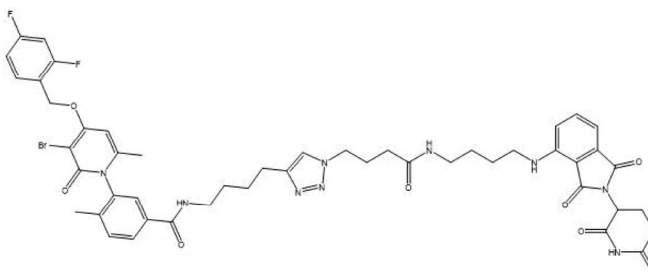
Batch No.: 1

CAS Number: 2550399-06-7

IUPAC Name: 3-(3-Bromo-4-((2,4-difluorobenzyl)oxy)-6-methyl-2-oxopyridin-1(2H)-yl)-N-(4-(1-(4-((4-((2-(2,6-dioxopiperidin-3-yl)-1,3-dioxisoindolin-4-yl)amino)butyl)amino)-4-oxobutyl)-1H-1,2,3-triazol-4-yl)butyl)-4-methylbenzamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₄₈ H ₅₀ BrF ₂ N ₉ O ₈
Batch Molecular Weight:	998.87
Physical Appearance:	Yellow solid
Solubility:	DMSO to 100 mM
Storage:	Store at -20°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

HPLC:	Shows 96.9% purity
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure

Microanalysis:	Carbon Hydrogen Nitrogen		
Theoretical	57.72	5.05	12.62
Found	57.42	5.04	12.4

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

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Description:

NR 7h is a potent and selective p38 α and p38 β Degradator (PROTAC[®]) (DC₅₀ < 50 nM). Displays no significant degradation of p38 γ , p38 δ , JNK1/2 or ERK1/2. Inhibits phosphorylation of MK2 in UV-treated cancer cells and LPS-stimulated bone marrow-derived macrophages (BMDM). Exhibits similar effect to p38 α gene knockout in BBL358 cells. NR 7h impairs replication of Mayaro virus in human dermal fibroblasts and HeLa cells. Active in vivo. p38 α antibody validated for Simple Western[™] (automated Western Blot) instruments also available: Catalog # AF8691. PROTAC[®] is a registered trademark of Arvinas Operat... Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

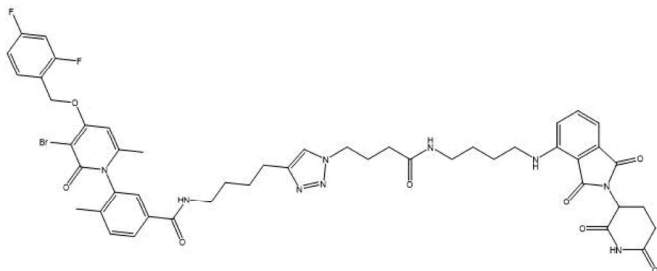
Batch Molecular Formula: C₄₈H₅₀BrF₂N₉O₈

Batch Molecular Weight: 998.87

Physical Appearance: Yellow solid

Minimum Purity: ≥97%

Batch Molecular Structure:



References:

Sugasti-Salazar et al (2021) Inhibition of p38 mitogen-activated protein kinase impairs mayaro virus replication in human dermal fibroblasts and HeLa cells. *Viruses* **13** 1156. PMID: 34204188.

Donoghue et al (2020) Optimal linker length for small molecule PROTACs that selectively target p38 α and p38 β for degradation. *Eur.J.Med.Chem.* **201** 112451. PMID: 32634680.

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.

Licensing Information:

Sold with kind permission of IRB Barcelona.

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