bio-techne
TOCRIS

Print Date: Mar 15th 2024

Certificate of Analysis

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Product Name: **SJF 1528** **Catalog No.: 7262** **Batch No.: 1**

CAS Number: 2230821-38-0

IUPAC Name: (2*S*,4*R*)-1-((*S*)-2-(2-(2-(2-(4-(4-((3-Chloro-4-((3-fluorobenzyl)oxy)phenyl)amino)quinazolin-6- yl)phenoxy)ethoxy) ethoxy)acetamido)-3,3-dimethylbutanoyl)-4-hydroxy-*N*-(4-(4-methylthiazol-5-yl)benzyl)pyrrolidine-2-carboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{55}H_{57}ClFN_7O_8S.½H_2O$

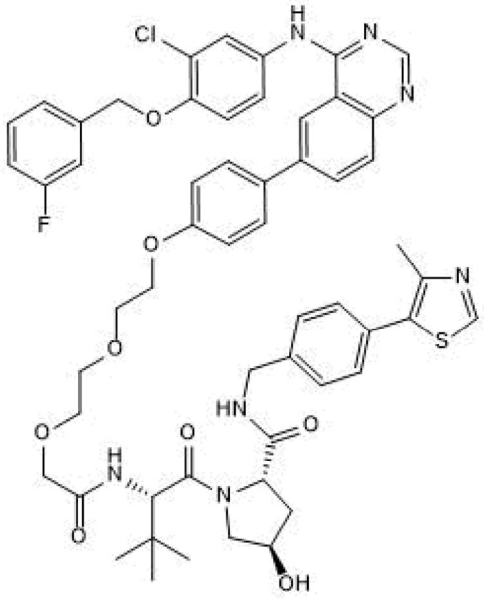
Batch Molecular Weight: 1039.62

Physical Appearance: Pale yellow solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.9% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	63.54	5.62	9.43
Found	63.11	5.64	9.38

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Description:

SJF 1528 is a potent EGFR PROTAC® Degrader (DC_{50} values are 39.2 nM for wild-type EGFR in OVCAR8 cells and 736 nM for Exon20Ins mutated EGFR in HeLa cells). Also degrades HER2. SJF 1528 comprises the EGFR inhibitor Lapatinib (Cat. No. 6811) joined by a linker to a von Hippel-Lindau (VHL) recruiting ligand. Inhibits proliferation of HER2-driven breast cancer cell lines (IC_{50} = 102 nM for SKBr3 cells). EGFR antibody validated for Simple Western™ (automated Western) instruments and Western Blot also available: Catalog # AF231 PROTAC® is a registered trademark of Arvinas Operations, Inc., and is used under license. Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

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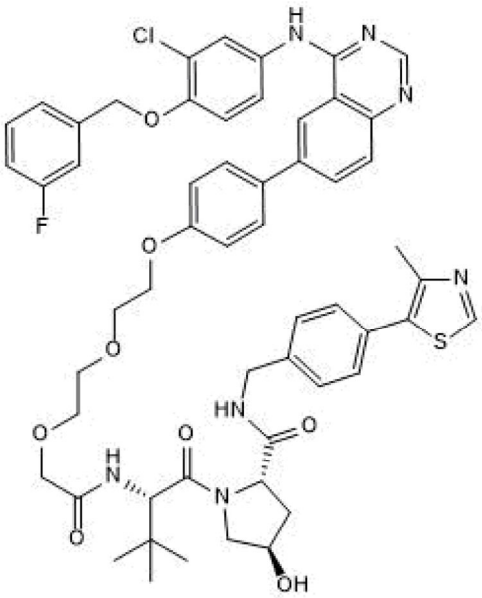
Minimum Purity: ≥98%

Batch Molecular Structure:



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.

References:

Burslem *et al* (2018) The advantages of targeted protein degradation over inhibition: An RTK case study. Cell Chem.Biol. ***25*** 67. PMID: 29129716.