Certificate of Analysis

Product Name: **KL 465** **Catalog No.: 8854** **Batch No.: 1**

CAS Number: 3057446-82-6

IUPAC Name: (2*S*,4*R*)-*N*-(2-(2-(2-(2-((4-(Furan-2-carbonyl)piperazin-1-yl)methyl)-4-(1*H*-indazol-4-yl)phenoxy)ethoxy)ethoxy)-4-(4-methylthiazol-5-yl)benzyl)-4-hydroxy-1-((*S*)-3-methyl-2-(1-oxoisoindolin-2-yl)butanoyl)pyrrolidine-2-carboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{56}H_{60}N_8O_9S.1¼H_2O$

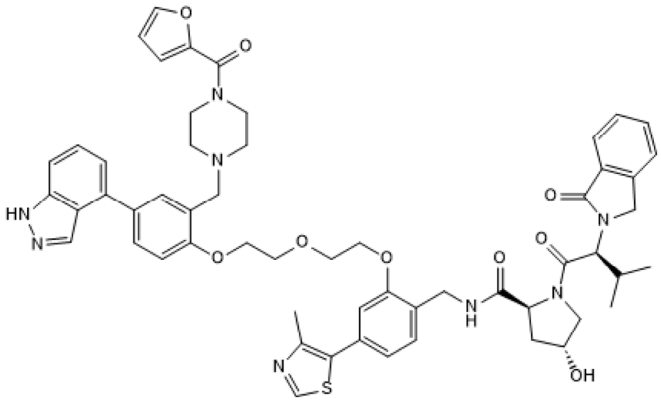
Batch Molecular Weight: 1043.72

Physical Appearance: White solid

Solubility: DMSO to 50 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.7% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	64.44	6.04	10.74
Found	63.45	6.03	10.48

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Description:

KL 465 is a MAGE-A3 Degrader (PROTAC®) (DC_{50} = 2 µM; D_{max} = 60%). MAGE-A3 degradation with KL 465 decreases cancer cell viability and is VHL dependent. PROTAC® is a registered trademark of Arvinas Operations, Inc., and is used under license.

Physical and Chemical Properties:

Batch Molecular Formula: $C_{56}H_{60}N_8O_9S.1¼H_2O$

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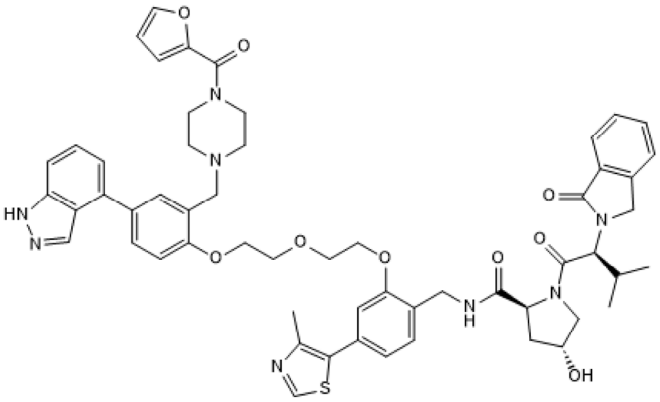
Minimum Purity: ≥98%

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.

References:

Li *et al* (2024) Development of ligands and degraders targeting MAGE-A3. J.Am.Chem.Soc. ***146*** 24884. PMID: 39190582.