

Product Name: MS 154

Catalog No.: 7395

Batch No.: 1

CAS Number: 2550393-21-8

IUPAC Name: 3-(4-(3-((4-(3-Chloro-4-fluorophenyl)amino)-7-methoxyquinazolin-6-yl)oxy)propyl)piperazin-1-yl)-N-(8-((2-(2,6-dioxopiperidin-3-yl)-1,3-dioxoisindolin-4-yl)oxy)octyl)propanamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₄₆H₅₄ClFN₈O₈·½H₂O

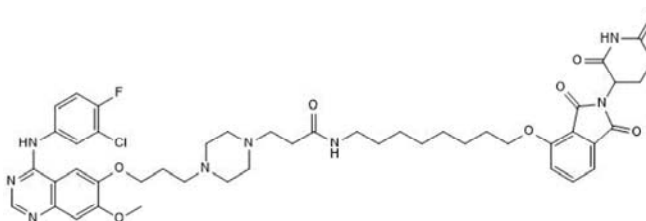
Batch Molecular Weight: 910.44

Physical Appearance: Pale yellow solid

Solubility: DMSO 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	60.69	6.09	12.31
Found	60.25	6.15	12.14

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

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Description:

MS 154 is a potent and selective cereblon-recruiting Degradator (PROTAC®) of mutant epidermal growth factor receptor (EGFR), comprising a cereblon-binding moiety joined by a linker to gefitinib (Iressa, Cat. No. 3000). MS 154 decreases EGFR protein levels, inhibits downstream signaling in and inhibits proliferation of mutant EGFR-bearing lung cancer cells (DC₅₀ values are 11 and 25 nM in HCC-827 and H3255 cells, respectively; D_{max} > 95% at 50 nM), but not in WT-EGFR-bearing ovarian and lung cancer cells lines. Bioavailable in mice following ip administration. Negative control (Cat. No. 7396) also available. PROTAC® is a registe... Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

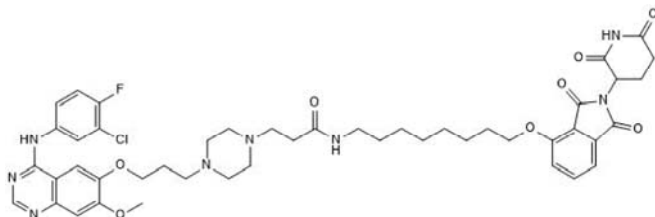
Batch Molecular Formula: C₄₆H₅₄ClFN₈O₈·½H₂O

Batch Molecular Weight: 910.44

Physical Appearance: Pale yellow solid

Minimum Purity: ≥98%

Batch Molecular Structure:



References:

Cheng et al (2020) Discovery of potent and selective epidermal growth factor receptor (EGFR) bifunctional small-molecule degraders. *J.Med.Chem.* **63** 1216. PMID: 31895569.

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. Our standard recommendations are:

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 Icahn School of Medicine at Mount Sinai.

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North America

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