

PRODUCT INFORMATION



DB0614

Item No. 45395

CAS Registry No.: 2769753-47-9

Formal Name: N-[3-[2-[[4-[4-[5-[[2-(2,6-dioxo-3-piperidiny)-2,3-dihydro-1,3-dioxo-1H-isoindol-4-yl]oxy]pentyl]-1-piperazinyl]phenyl]amino]thieno[3,2-d]pyrimidin-7-yl]phenyl]-methanesulfonamide

MF: C₄₁H₄₂N₈O₇S₂

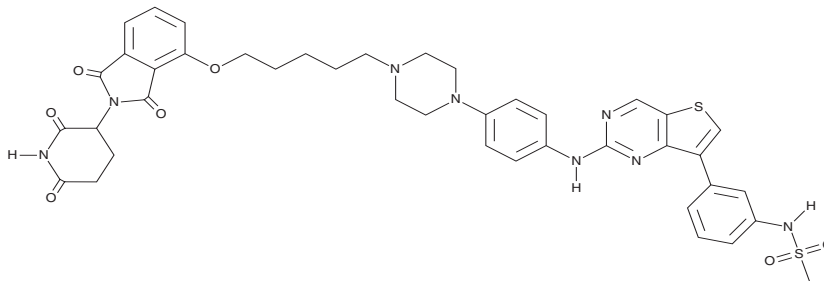
FW: 823.0

Purity: ≥98%

Supplied as: A solid

Storage: -20°C

Stability: ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

DB0614 is supplied as a solid. A stock solution may be made by dissolving the DB0614 in the solvent of choice, which should be purged with an inert gas. DB0614 is sparingly soluble (0.1-1 mg/ml) in DMSO and slightly soluble (0.1-1 mg/ml) in methanol.

Description

DB0614 is a proteolysis-targeting chimera (PROTAC) containing a kinase-binding thienopyrimidine compound conjugated with the cereblon (CRBN) ligand thalidomide *via* an alkyl linker.¹ It reduces the levels of seven kinases, NIMA-related kinase 9 (NEK9), Cdk4 and -6, AP2-associated protein kinase 1 (AAK1), proline-rich tyrosine kinase 2 (PYK2), serine/threonine kinase 17a (STK17A), and WEE1 greater than two-fold in MOLT-4 human T cell lymphoblasts at a concentration of 125 nM.

References

1. Ryu, S., Gadbois, G. E., Tao, A. J., et al. Synthesis and structure-activity relationships of targeted protein degraders for the understudied kinase NEK9. *Curr. Res. Chem. Biol.* **1**, 100008 (2021).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY

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