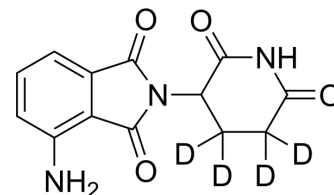


Pomalidomide-d₄

Cat. No.:	HY-10984S2
CAS No.:	1416575-78-4
Molecular Formula:	C ₁₃ H ₇ D ₄ N ₃ O ₄
Molecular Weight:	277.27
Target:	Apoptosis; Ligands for E3 Ligase; Molecular Glues; Isotope-Labeled Compounds
Pathway:	Apoptosis; PROTAC; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Pomalidomide-d ₄ is the deuterium labeled Pomalidomide. Pomalidomide, the third-generation immunomodulatory agent, acts as molecular glue. Pomalidomide interacts with the E3 ligase cereblon and induces degradation of essential Ikaros transcription factors<
In Vitro	Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Zhu YX, et al. Molecular mechanism of action of the immune-modulatory drugs, thalidomide, lenalidomide and pomalidomide in multiple myeloma. *Leuk Lymphoma*. 2013 Apr;54(4):683-7.; Hernandez-Ilizaliturri FJ1, et al. Immunomodulatory drug CC-5013 or CC-4047 a
- [2]. Hernandez-Ilizaliturri FJ, et al. Immunomodulatory drug CC-5013 or CC-4047 and rituximab enhance antitumor activity in a severe combined immunodeficient mouse lymphoma model. *Clin Cancer Res*. 2005 Aug 15;11(16):5984-92.
- [3]. Yuan Xiao Zhu, et al. Molecular mechanism of action of the immune-modulatory drugs, thalidomide, lenalidomide and pomalidomide in multiple myeloma. *Leuk Lymphoma*. 2013 Apr;54(4):683-7.; Hernandez-Ilizaliturri FJ1,

Caution: Product has not been fully validated for medical applications. For research use only.

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