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Produktinformation



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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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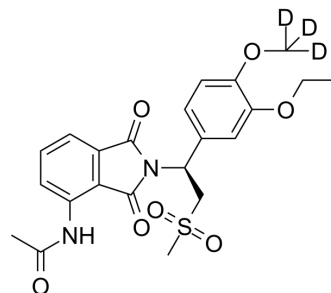
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Apremilast-d₃

Cat. No.:	HY-12085S3
CAS No.:	1258597-46-4
Molecular Formula:	C ₂₂ H ₂₁ D ₃ N ₂ O ₇ S
Molecular Weight:	463.52
Target:	Isotope-Labeled Compounds; Apoptosis; Phosphodiesterase (PDE); TNF Receptor
Pathway:	Others; Apoptosis; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Apremilast-d₃ (CC-10004-d₃) is deuterium labeled Apremilast. Apremilast (CC-10004) is an orally available inhibitor of type-4 cyclic nucleotide phosphodiesterase (PDE-4) with an IC₅₀ of 74 nM. Apremilast inhibits TNF-α release by lipopolysaccharide (LPS) with an IC₅₀ of 104 nM^{[1][2]}.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.
- [2]. Perez-Aso M, et al. Apremilast, a novel phosphodiesterase 4 (PDE4) inhibitor, regulates inflammation through multiple cAMP downstream effectors. *Arthritis Res Ther*. 2015 Sep 15;17:249.
- [3]. Chen LG, et al. Determination of Apremilast in Rat Plasma by UPLC-MS-MS and Its Application to a Pharmacokinetic Study. *J Chromatogr Sci*. 2016 Sep;54(8):1336-40.

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

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