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Produktinformation



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Zuschläge

- Mindermengenzuschlag
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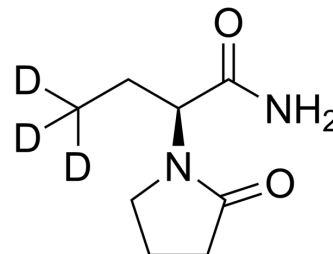
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Levetiracetam-d₃

Cat. No.:	HY-B0106S1
CAS No.:	1217851-16-5
Molecular Formula:	C ₈ H ₁₁ D ₃ N ₂ O ₂
Molecular Weight:	173.23
Target:	DNA Methyltransferase
Pathway:	Epigenetics
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Levetiracetam-d ₃ is the deuterium labeled Levetiracetam. Levetiracetam, an antiepileptic agent, binds the synaptic vesicle protein SV2A. Levetiracetam enhances Temozolomide effect on glioblastoma stem cell proliferation and apoptosis. Levetiracetam modulates HDAC levels ultimately silencing MGMT, thus increasing Temozolomide effectiveness. A chemosensitizer agent[1][2].
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]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019;53(2):211-216.
- [2]. Bianca Maria Scicchitano, et al. Levetiracetam enhances the temozolomide effect on glioblastoma stem cell proliferation and apoptosis. *Cancer Cell Int*. 2018 Sep 10;18:136.
- [3]. Delia M Talos, et al. Antiepileptic effects of levetiracetam in a rodent neonatal seizure model. *Pediatr Res*. 2013 Jan;73(1):24-30.

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

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