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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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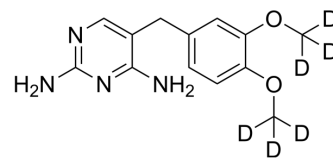
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Diaveridine-d₆

Cat. No.:	HY-B1902S
Molecular Formula:	C ₁₃ H ₁₀ D ₆ N ₄ O ₂
Molecular Weight:	266.33
Target:	Isotope-Labeled Compounds; Antifolate; Bacterial
Pathway:	Others; Cell Cycle/DNA Damage; Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Diaveridine-d₆ (EGIS-5645-d₆) is deuterium labeled Diaveridine. Diaveridine (EGIS-5645) is a dihydrofolate reductase (DHFR) inhibitor with a K_i of 11.5 nM for the wild type DHFR and also an antibacterial agent^[1].

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.
- [2]. Sirichaiwat C et al. Target guided synthesis of 5-benzyl-2,4-diamonopyrimidines: their antimalarial activities and binding affinities to wild type and mutant dihydrofolate reductases from *Plasmodium falciparum*. *J Med Chem* 47:345-54 (2004).
- [3]. Ono T, et al. The genotoxicity of diaveridine and trimethoprim. *Environ Toxicol Pharmacol*. 1997 Sep;3(4):297-306.
- [4]. Wang J, et al. Acute, mutagenicity, teratogenicity and subchronic oral toxicity studies of diaveridine in rodents. *Environ Toxicol Pharmacol*. 2015 Sep;40(2):660-70.

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

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