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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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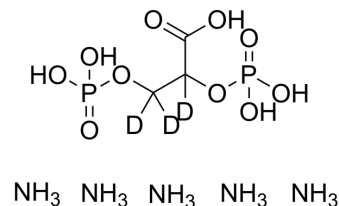
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2,3-Diphosphoglyceric acid-d₃ ammonium

Cat. No.:	HY-113050SA
CAS No.:	2712139-19-8
Molecular Formula:	C ₃ H ₂₀ D ₃ N ₅ O ₁₀ P ₂
Molecular Weight:	354.21
Target:	Isotope-Labeled Compounds; Parasite
Pathway:	Others; Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

2,3-Diphosphoglyceric acid-d₃ ammonium (2,3-DPG-d₃ ammonium) is the deuterium labeled 2,3-Diphosphoglyceric acid (HY-113050). 2,3-Diphosphoglyceric acid (2,3-DPG) is an intermediate of the glycolytic pathway. 2,3-Diphosphoglyceric acid stabilizes the deoxygenated form of hemoglobin by allosteric binding and facilitates oxygen release at tissue sites. 2, 3-diphosphoglyceric acid has antiparasitic activity. 2,3-Diphosphoglyceric acid can be used in the study of Alzheimer's disease (AD)^{[1][2][3][4]}.

REFERENCES

- [1]. Shakil H. Merchant MD, et al. 24 - Molecular Diagnosis in Hematopathology. Hematopathology (Second Edition).2012, 679-726.
- [2]. Morais I, et al. Synthetic Red Blood Cell-Specific Glycolytic Intermediate 2,3-Diphosphoglycerate (2,3-DPG) Inhibits Plasmodium falciparum Development In Vitro. Front Cell Infect Microbiol. 2022 Mar 15;12:840968.
- [3]. Płoszczyca K, et al. Red Blood Cell 2,3-Diphosphoglycerate Decreases in Response to a 30 km Time Trial Under Hypoxia in Cyclists. Front Physiol. 2021 Jun 15;12:670977.
- [4]. Kosenko EA, et al. Relationship between chronic disturbance of 2,3-diphosphoglycerate metabolism in erythrocytes and Alzheimer disease. CNS Neurol Disord Drug Targets. 2016;15(1):113-23.

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

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