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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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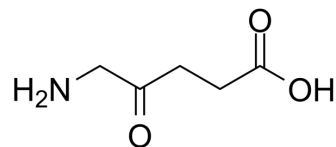
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5-Aminolevulinic acid

Cat. No.:	HY-W000450
CAS No.:	106-60-5
Molecular Formula:	C ₅ H ₉ NO ₃
Molecular Weight:	131.13
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (762.60 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		7.6260 mL	38.1301 mL	76.2602 mL
		5 mM		1.5252 mL	7.6260 mL	15.2520 mL
		10 mM		0.7626 mL	3.8130 mL	7.6260 mL
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (19.07 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (19.07 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (19.07 mM); Clear solution 					

BIOLOGICAL ACTIVITY

Description	5-Aminolevulinic acid (5-ALA) is a non-protein amino acid that plays a rate-limiting role in heme biosynthesis.
IC ₅₀ & Target	Human Endogenous Metabolite
In Vitro	5-Aminolevulinic acid (5-ALA) enhances the immune response of <i>L. vannamei</i> to <i>V. parahaemolyticus</i> , upregulates immune- and defense-related genes, and enhances aerobic energy metabolism, respectively ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Adv Sci (Weinh). 2019 Jan 20;6(5):1802057.
- Genome Biol. 2022 Dec 15;23(1):259.
- EMBO Mol Med. 2023 Feb 6;e16959.
- Pharmacol Res. 2021 Jun 1;105701.
- Cell Death Dis. 2021 Oct 25;12(11):999.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Pedrosa-Gerasmio IR, et al. Effects of 5-Aminolevulinic Acid on Gene Expression, Immunity, and ATP Levels in Pacific White Shrimp, *Litopenaeus vannamei*. Mar Biotechnol (NY). 2018 Aug 25.

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

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