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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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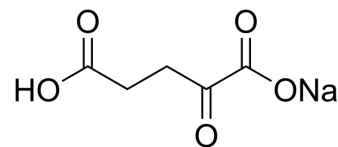
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2-Ketoglutaric acid Sodium

Cat. No.:	HY-W013636A
CAS No.:	22202-68-2
Molecular Formula:	C ₅ H ₅ NaO ₅
Molecular Weight:	168.08
Target:	Endogenous Metabolite; Tyrosinase
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	2-Ketoglutaric acid Sodium (Alpha-Ketoglutaric acid Sodium) is an intermediate in the production of ATP or GTP in the Krebs cycle. 2-Ketoglutaric acid Sodium also acts as the major carbon skeleton for nitrogen-assimilatory reactions. 2-Ketoglutaric acid Sodium is a reversible inhibitor of tyrosinase (IC ₅₀ =15 mM) ^{[1][2]} .		
IC₅₀ & Target	Human Endogenous Metabolite	Microbial Metabolite	Tyrosinase 15 mM (IC ₅₀)
In Vitro	2-Ketoglutaric acid Sodium (Alpha-Ketoglutaric acid Sodium) has other physiological capabilities including reduction of ammonia level formed in the lung and general ammonia detoxification, protective role against lipid peroxidation and neuroprotective effect against cyanide poisoning ^[1] . 2-Ketoglutaric acid Sodium acts as precursor for the synthesis of amino acids and nucleotides ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		

REFERENCES

[1]. Huergo LF, et al. The Emergence of 2-Oxoglutarate as a Master Regulator Metabolite. *Microbiol Mol Biol Rev.* 2015 Dec;79(4):419-35.

[2]. Gou L, et al. The effect of alpha-ketoglutaric acid on tyrosinase activity and conformation: Kinetics and molecular dynamics simulation study. *Int J Biol Macromol.* 2017 Dec;105(Pt 3):1654-1662.

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

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