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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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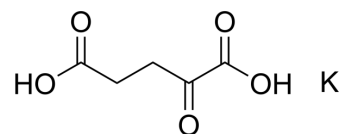
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2-Ketoglutaric acid potassium

Cat. No.:	HY-W013636C
CAS No.:	997-43-3
Molecular Formula:	C ₅ H ₆ KO ₅
Molecular Weight:	185.2
Target:	Tyrosinase
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

H₂O : ≥ 100 mg/mL (539.96 mM)
* "≥" means soluble, but saturation unknown.

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		5.3996 mL	26.9978 mL	53.9957 mL
	5 mM		1.0799 mL	5.3996 mL	10.7991 mL
	10 mM		0.5400 mL	2.6998 mL	5.3996 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

2-Ketoglutaric acid potassium (Alpha-Ketoglutaric acid potassium) is an intermediate in the production of ATP or GTP in the Krebs cycle. 2-Ketoglutaric acid potassium also acts as the major carbon skeleton for nitrogen-assimilatory reactions. 2-Ketoglutaric acid potassium is a reversible inhibitor of tyrosinase with an IC₅₀ value of 15 mM^{[1][2]}.

CUSTOMER VALIDATION

- Gut Microbes. 2023 Jan-Dec;15(1):2186114.
- Redox Biol. 2024 Mar 4;71:103112.
- PLoS Pathog. 2024 Jun 21;20(6):e1012305.

See more customer validations on www.MedChemExpress.com

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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