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Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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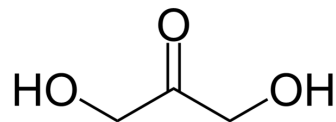
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1,3-Dihydroxyacetone (Standard)

Cat. No.:	HY-Y0335R
CAS No.:	96-26-4
Molecular Formula:	C ₃ H ₆ O ₃
Molecular Weight:	90.08
Target:	Drug Intermediate; Bacterial; Antibiotic
Pathway:	Others; Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	1,3-Dihydroxyacetone (Standard) is the analytical standard of 1,3-Dihydroxyacetone. This product is intended for research and analytical applications. 1,3-Dihydroxyacetone (DHA), the main active ingredient in sunless tanning skin-care preparations and an important precursor for the synthesis of various fine chemicals, is produced on an industrial scale by microbial fermentation of glycerol (HY-B1659) in <i>Gluconobacter oxydans</i> . 1,3-Dihydroxyacetone is also used for synthesis of new biodegradable polymers by combining with lactic acid (HY-B2227) ^{[1][2]} .
In Vitro	DHA (20-30 g/L) can inhibit the mitotic activity of the gram-negative bacterium <i>G. oxydans</i> ^[3] . At higher concentrations of 1,3-Dihydroxyacetone (70 g/L), it completely inhibits <i>G. oxydans</i> cells, blocking the fermentation process and thereby affecting the production of 1,3-Dihydroxyacetone ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Zheng Z, et al. Novel Process for 1,3-Dihydroxyacetone Production from Glycerol. 1. Technological Feasibility Study and Process Design. *Ind. Eng. Chem. Res.* 2012, 51, 9, 3715–3721.
- [2]. Dikshit PK, et al. Optimization of 1,3-dihydroxyacetone production from crude glycerol by immobilized *Gluconobacter oxydans* MTCC 904. *Bioresour Technol.* 2016 Sep;216:1058-65.
- [3]. Dikshit PK, et al. Process optimization and analysis of product inhibition kinetics of crude glycerol fermentation for 1,3-Dihydroxyacetone production. *Bioresour Technol.* 2017 Nov;244(Pt 1):362-370.

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

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