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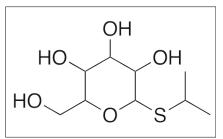
Product Information

Product ID 17356 CAS No. 367-93-1

Chemical Name

Synonym Isopropyl B-D-thiogalactoside, IPTG, Isopropyl B-D-1thiogalactopyranoside

Formula C₉H₁₈O₅S Formula Wt. 238.30 Melting Point 110-114°C Purity ≥98% Solubility Soluble in water.



Pricing and Availability

Bulk quanitites available upon request

| Product ID | Size | List Price |
|------------|------|------------|
| 17356 | 1 g | \$82.90 |
| 17356 | 5 g | \$330.20 |
| 17356 | 10 g | \$571.60 |

Store Temp -20°C

Ship Temp Ambient

Description Isopropyl thiogalactoside is an analog of galactose that is not cleaved by β-galactosidase. Isopropyl thiogalactoside is a mimic of allolactose that induces activation of the *lac* operon, simulating protein expression.

References Yu T, Liu W, Brinck M, et al. Multiplexed characterization of rationally designed promoter architectures deconstructs combinatorial logic for IPTG-inducible systems. Nat Commun. 2021 Jan 12;12(1):325. PMID: 33436562.

Colarusso A, Lauro C, Calvanese M, et al. Improvement of Pseudoalteromonas haloplanktis TAC125 as a cell factory: IPTGinducible plasmid construction and strain engineering. Microorganisms. 2020 Sep 24;8(10):1466. PMID: 32987756.

Myung S, Park J, Han J, et al. Development of the mammalian expression vector system that can be induced by IPTG and/or lactose. J Microbiol Biotechnol. 2020 Aug 28;30(8):1124-1131. PMID: 32423185.

Marbach A, Bettenbrock K. lac operon induction in Escherichia coli: Systematic comparison of IPTG and TMG induction and influence of the transacetylase LacA. J Biotechnol. 2012 Jan;157(1):82-8. PMID: 22079752.

Hansen LH, Knudsen S, Sørensen SJ. The effect of the lacY gene on the induction of IPTG inducible promoters, studied in Escherichia coli and Pseudomonas fluorescens. Curr Microbiol. 1998 Jun;36(6):341-7. PMID: 9608745.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.