



LKT Laboratories, Inc.
Isopropyl Thiogalactoside

Phone: 888-558-5227
651-644-8424
Fax: 888-558-7329
Email: getinfo@lctlabs.com
Web: lctlabs.com

Product Information

Product ID I7356

CAS No. 367-93-1

Chemical Name

Synonym Isopropyl β -D-thiogalactoside, IPTG

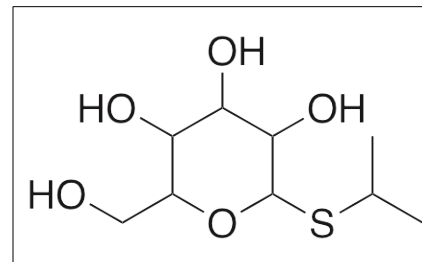
Formula $C_9H_{18}O_5S$

Formula Wt. 238.30

Melting Point 110-114°C

Purity $\geq 98\%$

Solubility Soluble in water.



Bulk quantities available upon request

Product ID	Size
I7356	1 g
I7356	5 g
I7356	10 g

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 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.