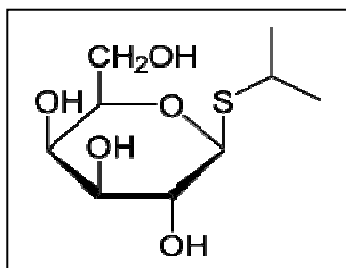


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Ultrapure IPTG: Isopropyl 1-thio- β -D galactopyranoside



IPTG induces the transcription of the gene coding for β -galactosidase, an enzyme that promotes lactose utilization, by binding and inhibiting the LacI repressor. IPTG is widely used as it cannot be metabolized by *E. coli* so its concentration remains constant through the *in vivo* study. We offer ultrapure IPTG from Glycon.

Specifications:

Isopropyl 1-thio- β -D galactopyranoside

Description	Specification
Appearance:	White crystalline powder
Formula:	$C_9H_{18}O_5S$
Molecular weight:	238.30 g/mol
CAS:	[367-93-1]
IR:	Standard
Specific rotation (20°C, c=1, H ₂ O):	-31 to -33°
Purity (HPLC, A ₂₂₀):	>99.0% (typically 99.5%)
pH (1% solution)	5.5-6.5
Water (K.F.)	max. 0.5%
Dioxan:	Dioxan is not used for preparing IPTG.
Solution (3% in H ₂ O, 21°C)	Clear, colourless
Solution (20% in EtOH, 21°C)	Clear, colourless
TLC (CH ₂ Cl ₂ : MeOH 3:1)	One spot R _f 0.5 ± 0.1

Order Code	Description	Price
GEN-S-02122	Ultrapure IPTG (> 99%; 25 g)	£82.50

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