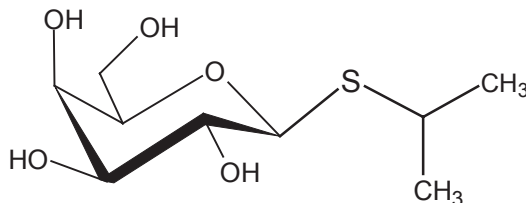




INALCO PHARMACEUTICALS
www.inalcopharm.com

DATA SHEET
inducer

ISOPROPYL-β-D-THIOGALACTOPYRANOSIDE, Dioxane free
(IPTG, DIOXANE FREE)



Inalco code	1758-1400
C.A.S. R.N.	[367-93-1]
Applications	A β-Galactosidase inducer used also as an inducer for the activity of the <i>E. coli</i> lac operon by linking and inactivating the lac repressor gene, without being degraded by the enzyme like the natural substrate, lactose.
Formula	C ₉ H ₁₈ O ₅ S
Molecular Weight	238.3
Appearance	White powder
Assay (HPLC)	≥ 99.0%
Specific Rotation	[α] ²⁰ _D -32° ± 1 (c=1 in H ₂ O)
Water Content (K.F.)	≤ 1%
pH	5 - 7 (5% in H ₂ O)
Solubility	Clear and colorless solution (5% in H ₂ O)
I.R.	Conforming to the structure
Storage	Store at 0-4° C; protect from light and humidity.
Toxicity	Toxicity unknown; avoid exposure.

References: Cho, S., et al., Biochem. Biophys. Res. Comm., 128, 1268-1273 (1985)
Sheffield, W.P., et al., Biochem. Biophys. Res. Comm., 134, 21 (1986)
Yansura, D.G., and Henner, D.J., Proc. Natl. Acad. Sci., 81, 439 (1984)