

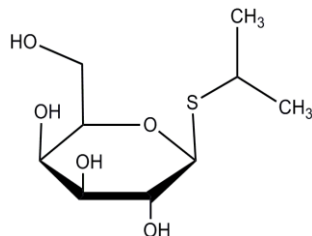
IPTG, Animal-Free (Dioxane-Free)

ALTERNATE NAME: Isopropyl- β -D-thiogalactopyranoside

CATALOG #: 1649-1G, 5G, 50G

AMOUNT: 1g, 5 g, 50 g

STRUCTURE:



MOLECULAR FORMULA: C₉H₁₈O₅S

MOLECULAR WEIGHT: 238.09

CAS# 367-93-1

APPEARANCE: White to off-white solid

SOLUBILITY: Water (50 mg/ml)

PURITY: \geq 99% by HPLC

STORAGE: Store at 4 °C

DESCRIPTION: Dioxane free. Induces β -galactosidase activity in many bacteria. Functioning as a *lac* analog, IPTG induces β -galactosidase activity by binding to and inhibiting the *lac* repressor and altering its conformation, which prevents the repression of the β -galactosidase coding gene *lacZ*.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

RELATED PRODUCTS:

- β -Galactosidase staining kit (Cat. No. K802-250)
- Cycloheximide (Cat. No. 1041-1G)
- Cycloheximide (Cat. No. 1041-1)
- G-418 Sulfate (Cat. No. 1557-1000)

FOR RESEARCH USE ONLY! Not to be used in humans.