

IPTG

Cat. # P1010-10, P1010-25, P1010-100, P1010-300, P1010-500

Also Known as: isopropyl- β -D-thiogalactopyranoside

CAS: 367-93-1

MW: 238.3 Da

Formula: C₉H₁₈O₅S

Source: Synthetic

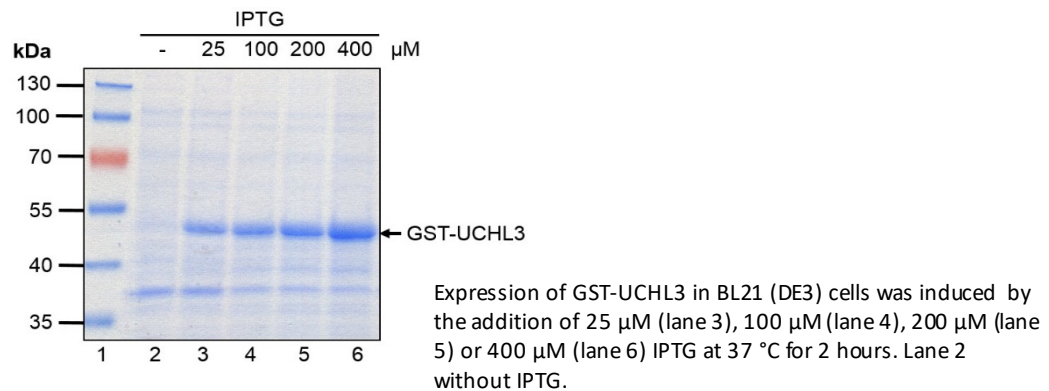
Form: Powder

Solubility: Soluble in DMSO

Quality Assurance: >99% by HPLC

Description: IPTG, Isopropyl β -D-1-thiogalactopyranoside, binds the lac repressor and induces expression of β -galactosidase in *E. coli*. IPTG is widely used to induce the expression of cloned genes under the control of the lac operon and to screen blue/white colony in X-gal plate.

Image(s):



Storage: Eligible for ambient temperature shipping. Store at 4°C upon receiving.

Literature: J. Sambrook, D. W. Russell, *Molecular Cloning: A Laboratory Manual*, the Third edition (Cold Spring Harbor Laboratory Press, Cold Spring Harbor, New York, A1.27, 2001) pp. 1.124-1.125.

Note: Note: IPTG is often prepared in distilled water in 1 M stock solution (238 mg/ml). Sterile the solution using 0.2 μ m filter. Aliquot the stock and store under -20°C.

