

Datasheet for ABIN925617

## **IPTG (Isopropyl Beta-D-Thiogalactoside) Inducer For Beta-Galactosidase Expression**



[Go to Product page](#)

### Overview

---

Quantity: 1 g

### Product Details

---

Characteristics: Enzyme Type: Beta Galactosidase  
Type: Substrate

Purity: > 99.0 % (enzymatic)

### Target Details

---

Background: IPTG (isopropyl beta-D-thiogalactoside) Inducer for Beta-Galactosidase Expression acts as a molecular mimic of a lactose metabolite. The presence of IPTG triggers the activation of the lac operon for downstream gene transcription due to its binding the lac repressor. Due to the presence of a sulfur atom in IPTG, the cells cannot degrade the inducer and therefore its concentration remains constant. IPTG (isopropyl beta-D-thiogalactoside) Inducer for Beta-Galactosidase Expression is ideal for investigators in Immunology, Cell Biology, and Microbiology research.

Synonyms: Isopropyl  $\beta$ -D-1-thiogalactopyranoside, IPTG

### Application Details

---

Application Notes: IPTG (isopropyl beta-D-thiogalactoside) Inducer for Beta-Galactosidase Expression is utilized in cloning experiments to determine positive incorporation of a construct of interest as well as in inducing recombinant protein expression.

Restrictions: For Research Use only

## Handling

---

Format: Solid

---

Storage: -20 °C