



碧云天生物技术/Beyotime Biotechnology  
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## IPTG ( $\geq 99\%$ , BioPremium)

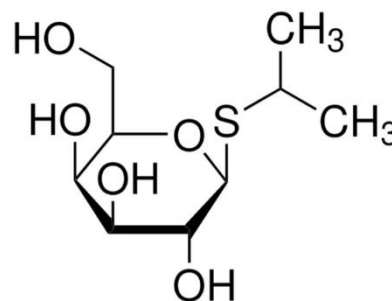
产品编号	产品名称	包装
ST099-5g	IPTG ( $\geq 99\%$ , BioPremium)	5g
ST099-25g	IPTG ( $\geq 99\%$ , BioPremium)	25g
ST099-100g	IPTG ( $\geq 99\%$ , BioPremium)	100g

### 产品简介:

CAS Number	Chemical Formula	Molecular Weight	Purity	Grade
367-93-1	C <sub>9</sub> H <sub>18</sub> O <sub>5</sub> S	238.3	$\geq 99\%$	BioPremium

### ➤ 基本信息(General Information):

Name (Chinese)	异丙基 $\beta$ -D-1-硫代吡喃半乳糖苷
Name (English)	IPTG
Specifications	BioPremium, $\geq 99\%$
Chemical Formula	C <sub>9</sub> H <sub>18</sub> O <sub>5</sub> S
Synonym (Chinese)	异丙基 $\beta$ -D-硫代半乳糖苷
Synonym (English)	Isopropyl $\beta$ -D-1-thiogalactopyranoside; Isopropyl $\beta$ -D-thiogalactoside
Beilstein Registry No.	4631
EINECS Number	206-703-0
MDL Number	MFCD00063273
UNSPSC Code	-



### ➤ 产品描述(Description):

Application	IPTG is commonly used in cloning procedures that require induction of $\beta$ -galactosidase activity. It is used in conjunction with X-Gal or Blue-Gal in blue-white selection of recombinant bacterial colonies that induce expression of the lac operon in Escherichia coli. IPTG functions by binding to the lacI repressor and altering its conformation, which prevents the repression of the $\beta$ -galactosidase coding gene lacZ.
Biochem/physiol Actions	IPTG is a non-metabolizable analog of allolactose. It acts as an inducer that regulates the transcriptional activity of the lac promoter, a promoter that is used for the expression of the protein in E.coli.

### ➤ 性质(Properties):

Description	non-ionic
Useful pH range	5-7 (50g/L)
mp	105°C (221°F)

### ➤ 安全信息(Safety Information):

Hazard Pictogram Codes	-
Signal Word	-
Hazard Statements	-
Precautionary Statements	-
Personal Protective Equipment	-
Hazard Codes (Europe)	-
Risk Codes (Europe)	-
Safety Codes (Europe)	-

RIDADR	-
WGK Germany	3
RTECS	-
Flash Point (F)	-
Flash Point (C)	-

包装清单:

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—	说明书	1份

保存条件:

4°C保存, 三年有效。

注意事项:

- 本产品仅限于专业人员的科学研究用, 不得用于临床诊断或治疗, 不得用于食品或药品, 不得存放于普通住宅内。
- 为了您的安全和健康, 请穿实验服并戴一次性手套操作。

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