

## IBMX ( $\geq 99\%$ , Reagent grade)

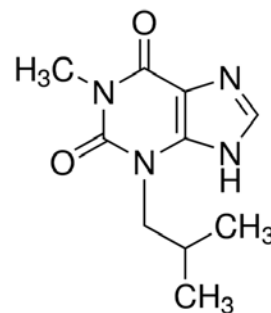
产品编号	产品名称	包装
ST1398-50mg	IBMX ( $\geq 99\%$ , Reagent grade)	50mg
ST1398-250mg	IBMX ( $\geq 99\%$ , Reagent grade)	250mg
ST1398-1g	IBMX ( $\geq 99\%$ , Reagent grade)	1g

### 产品简介:

CAS Number	Chemical Formula	Molecular Weight	Purity	Grade
28822-58-4	C <sub>10</sub> H <sub>14</sub> N <sub>4</sub> O <sub>2</sub>	222.24	$\geq 99\%$	Reagent grade

### ➤ 基本信息(General Information):

Name (Chinese)	IBMX
Name (English)	IBMX 3-Isobutyl-1-methylxanthine
Specifications	Reagent grade, $\geq 99\%$ (HPLC), powder
Chemical Formula	C <sub>10</sub> H <sub>14</sub> N <sub>4</sub> O <sub>2</sub>
Synonym (Chinese)	3-异丁基-1-甲基黄嘌呤, 1-甲基-3-异丁基黄嘌呤, 3,7-二氢-1-甲基-3-(2-甲基丙基)-1H-嘌呤-2,6-二酮, 3-异丁基-1-甲基-2,6(1H,3H)-嘌呤二酮
Synonym (English)	1-Methyl-3-isobutylxanthine; 3,7-Dihydro-1-methyl-3-(2-methylpropyl)-1H-purine-2,6-dione; 3-Isobutyl-1-methyl-2,6(1H,3H)-purinedione; IBMX
Beilstein Registry No.	247859
EINECS Number	249-259-3
MDL Number	MFCD00005584
UNSPSC Code	12352202




### ➤ 产品描述(Description):

Biochem/physiol Actions	cAMP和cGMP磷酸二酯酶的非特异性抑制剂。由IBMX的磷酸二酯酶抑制引起的cAMP水平的增加激活PKA, 导致增殖减少, 分化增加和凋亡诱导。IBMX抑制去氧肾上腺素诱导的来自气道粘膜神经内分泌上皮细胞的5-羟色胺的释放(IC <sub>50</sub> : 1.3 $\mu$ M)。也用作腺苷受体拮抗剂。显示出抑制神经肌肉接头, GH3细胞和血管平滑肌细胞中的离子通道。诱导细胞内存储在感觉神经元中释放钙。
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### ➤ 性质(Properties):

assay	$\geq 99\%$ (HPLC)
storage temp	-20°C
mp	200-201°C(lit.)
solubility	DMSO: soluble 1 M (with gentle warming)
solubility	ethanol: soluble 10 mg/mL
Gene Information	human ... PRKAR1A(5573), PRKAR1AP(5574), PRKAR1B(5575), PRKAR2A(5576), PRKAR2B(5577)rat ... Adora1(29290), Adora2a(25369)
form	powder
color	white to off-white

### ➤ 安全信息(Safety Information):

Hazard Pictogram Codes	
Signal Word	Warning

Hazard Statements	H302
Precautionary Statements	-
Personal Protective Equipment	dust mask type N95 (US), Eyeshields, Faceshields, Gloves
Hazard Codes (Europe)	Xn
Risk Codes (Europe)	22
Safety Codes (Europe)	-
RIDADR	NONH for all modes of transport
WGK Germany	3
RTECS	ZD8500000
Flash Point (F)	-
Flash Point (C)	-

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—	说明书	1份

#### 保存条件:

-20°C保存, 两年有效。

#### 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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