

Catalog	Unit
TBI1008 -100MG	100 mg
TBI1008 -1G	1 g

Product Details

Formal Name: 3,7-Dihydro-1-methyl-3-(2-methylpropyl)-1H-purine-2,6-dione.

Alternate Name: 3-Isobutyl-1-methylxanthine.

Molecular Formula: C₁₀H₁₄N₄O₂.

Formula Weight: 222.25.

CAS Number: 28822-58-4.

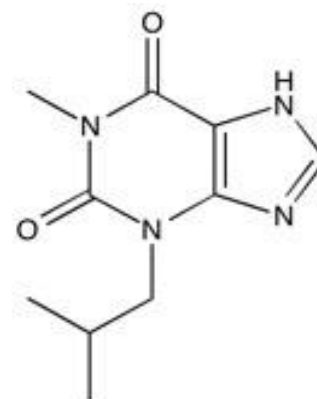
Purity: ≥98%

Formulation: Powder.

Solubility: Soluble in DMSO (up to 15 mg/ml) or in Ethanol (up to 10 mg/ml).

Storage: Room Temperature.

Stability: ≥ 2 years.



Applications

Pan-specific inhibitor of phosphodiesterase (PDE).

Functions

IBMX is a pan-specific inhibitor of phosphodiesterases (IC₅₀ = 2-50 μM). Inhibition of PDEs leads to increased concentration of intracellular cAMP which activates PKA. IBMX does not inhibit PDE8 or PDE9. It is a weak adenosine receptor antagonist as well.

Application Procedures

IBMX can be first dissolved in DMSO (up to 15mg/mL) or ethanol (up to 10mg/mL), then diluted to aqueous buffer. The solution can be stored at -20°C for up to 2 weeks.

Relative Products

TBI2438	EHNA Hydrochloride, PDE2 and ADA Inhibitor
TBI1220	Anagrelide HCl, PDE3 Inhibitor
TBI12218	Sildenafil Citrate, PDE5 Inhibitor
TBI1126	Vinpocetine, PDE1 Inhibitor
TBI1408	BC-11-38, PDE11 Inhibitor
TBI1319	BML-288, PDE2 Inhibitor
TBI2584	Cilostamide, PDE3 Inhibitor
TBI1131	Cilostazol, PDE3A Inhibitor
TBI2657	Roflumilast, PDE4 Inhibitor

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