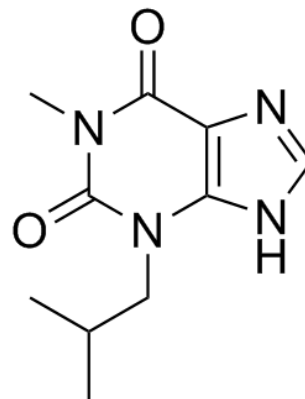


Product Name : IBMX
Cat. No. : PC-42971
CAS No. : 28822-58-4
Molecular Formula : C₁₀H₁₄N₄O₂
Molecular Weight : 222.2438
Target : Phosphodiesterase (PDE)
Solubility : DMSO: ≥ 35 mg/mL



Biological Activity

IBMX (Isobutylmethylxanthine, Methylisobutylxanthine, NSC165960) is a broad-spectrum inhibitor of cyclic AMP and cyclic GMP phosphodiesterases (**PDEs**) with IC₅₀ of 5-50 μM for PDE1, PDE2, PDE3, PDE4, PDE5, PDE7, and PDE11. IBMX is insensitive to PDE8A, PDE8B, and PDE9; increases cellular cAMP and cGMP levels, activating cyclic-nucleotide-regulated protein kinases.

References

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Kawabata A, et al. *Thromb Res*. 2001 Mar 15;101(6):513-5.
Tio M, et al. *PLoS One*. 2010 Feb 24;5(2):e9398.
Wu BN, et al. *Br J Pharmacol*. 2004 Aug;142(7):1105-14.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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