

CERTIFICATE OF ANALYSIS

PRODUCT:	IBMX [3-Isobutyl-1-methylxanthine; NSC 165960; EINECS 2490-259-3; 3,7-Dihydro-1-methyl-3-(2-methylpropyl)-1 <i>H</i> -purine-2,6-dione; PDE inhibitor] C ₁₀ H ₁₄ N ₄ O ₂ , M.W. 222.3, CAS# [28822-58-4]
PRODUCT NUMBER:	I-1036
LOT NUMBER:	H1406
APPEARANCE:	White Powder
SOLUBILITY:	Soluble in DMSO (15 mg/ml) or ethanol (10 mg/ml)
MELTING POINT:	200-201°C
PURITY (TLC):	> 99%
ANALYSIS (NMR):	Conforms
OTHER DATA:	Pan-specific inhibitor of phosphodiesterases (IC ₅₀ = 2-50μM). Inhibition of PDEs leads to increased concentration of intracellular cAMP which activates PKA. Does not inhibit PDE8 or PDE9. Weak adenosine receptor antagonist.
STORAGE & HANDLING:	Store at room temperature (+ 20°C). <u>WARNING: HARMFUL!</u>

CAUTION: For research use only. Not for human or drug use. The pharmacological and toxicological properties of this product have not been fully investigated. Use caution when handling. Do not use this compound if you are not fully trained or are unaware of the hazards involved.

Verified: KLS