

## CERTIFICATE OF ANALYSIS

<b>PRODUCT:</b>	<b>IBMX</b> [3-Isobutyl-1-methylxanthine; NSC 165960; EINECS 2490-259-3; 3,7-Dihydro-1-methyl-3-(2-methylpropyl)-1H-purine-2,6-dione; PDE inhibitor] C <sub>10</sub> H <sub>14</sub> N <sub>4</sub> O <sub>2</sub> , M.W. 222.3, CAS# [28822-58-4]
<b>PRODUCT NUMBER:</b>	I-1036
<b>LOT NUMBER:</b>	H1406A
<b>APPEARANCE:</b>	White Powder
<b>SOLUBILITY:</b>	Soluble in DMSO (15 mg/ml) or ethanol (10 mg/ml)
<b>MELTING POINT:</b>	200-201°C
<b>PURITY (TLC):</b>	> 99%
<b>ANALYSIS (NMR):</b>	Conforms
<b>OTHER DATA:</b>	Pan-specific inhibitor of phosphodiesterases (IC <sub>50</sub> = 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.
<b>STORAGE &amp; HANDLING:</b>	Store at room temperature (+ 20°C). <b><u>WARNING: HARMFUL!</u></b>

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: SK