

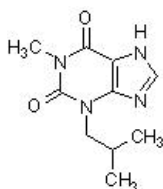
Product datasheet

IBMX, Non-specific cAMP and cGMP inhibitor ab120840

[1 References](#) [2 Images](#)

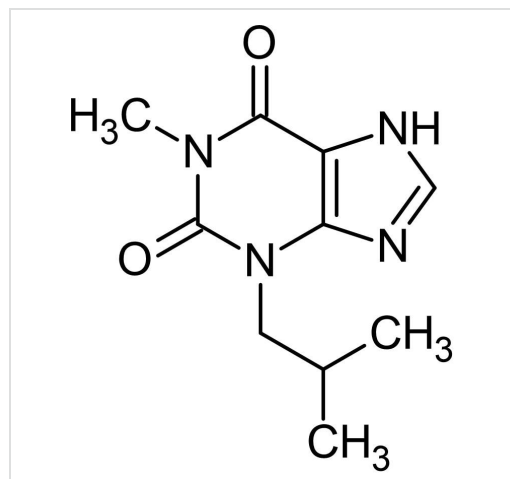
Overview

Product name	IBMX, Non-specific cAMP and cGMP inhibitor
Description	Non-specific cAMP and cGMP inhibitor
Purity	> 98%
CAS Number	28822-58-4
Chemical structure	



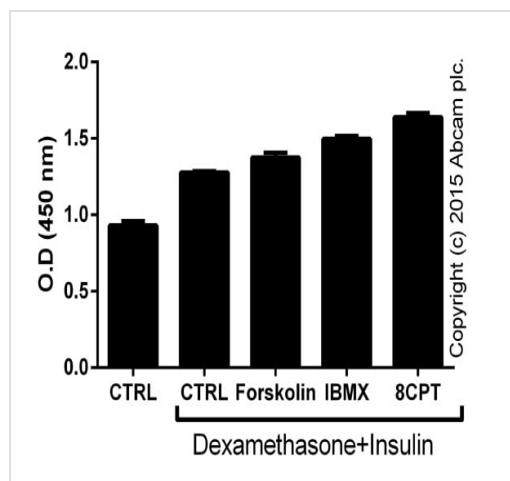
Properties

Chemical name	1-Methyl-3-(2-methylpropyl)-7H-purine-2,6-dione
Molecular weight	222.24
Molecular formula	C ₁₀ H ₁₄ N ₄ O ₂
PubChem identifier	3758
Storage instructions	Store at -20°C. Store under desiccating conditions. The product can be stored for up to 12 months.
Solubility overview	Soluble in DMSO to 75 mM and in ethanol to 50 mM
Handling	<p>Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.</p> <p>Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.</p>
SMILES	<chem>CC(C)CN1C2=C(C(=O)N(C1=O)C)NC=N2</chem>
Source	Synthetic



Chemical Structure - IBMX, Non-specific cAMP and cGMP inhibitor (ab120840)

2D chemical structure image of ab120840, IBMX, Non-specific cAMP and cGMP inhibitor



Functional Studies - IBMX, Non-specific cAMP and cGMP inhibitor (ab120840)

1e7 3T3-L1 cells were treated for 15 minutes with 1 μ M dexamethasone ([ab120743](#)) and 1 μ g x mL⁻¹ insulin ([ab123768](#)) with the addition of 50 μ M forskolin ([ab120058](#)), 0.5 mM IBMX (ab120840) or 0.1 mM 8-CPT-cAMP ([ab120424](#)), extracted according to the protocol. Lysates were diluted 50-fold, and tested in duplicates (+/-SD).

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES, NOT FOR USE IN HUMANS"

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