**Product overview**

**Name**: MMPX  
**Cat No**: HB0092  
**Short description**: Selective calmodulin-dependent PDE-1 inhibitor  
**Biological description**: Selective calmodulin-dependent phosphodiesterase 1 (PDE-1) inhibitor. Increases Ca²⁺-activated K⁺ (BK) channel activity in the urinary bladder and shows smooth muscle relaxing actions. Also shows vasodilator actions.  
**Alternative names**: 8-Methoxymethyl-IBMX  
**Biological action**: Inhibitor  
**Purity**: >98%

**Properties**

**Molecular Weight**: 266.3  
**Chemical structure**

![Chemical structure](image)  
**Molecular Formula**: C₁₂H₁₈N₄O₃  
**CAS Number**: 78033-08-6  
**PubChem identifier**: 155806  
**SMILES**: CC(C)CN1C2=C(C(=O)N(C1=O)C)NC(=N2)COC

**Storing and Using Your Product**

**Storage instructions**: room temperature  
**Solubility overview**: soluble in ethanol or DMOS (5mg/ml)  
**Important**: This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

**References for MMPX**

**Effects of selective inhibitors on cyclic nucleotide phosphodiesterases of rabbit aorta.**


**PubMedID**: 2554921
Selective inhibition of phosphodiesterase 1 relaxes urinary bladder smooth muscle: role for ryanodine receptor-mediated BK channel activation.
PubMedID: 22992675

In vivo effects of phosphodiesterase inhibition on basal cyclic guanosine monophosphate levels in the prefrontal cortex, hippocampus and cerebellum of freely moving rats.
PubMedID: 18655195

Lung vasodilatory response to inhaled iloprost in experimental pulmonary hypertension: amplification by different type phosphodiesterase inhibitors.
PubMedID: 16033645