Product overview

Name | MMPX
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Cat No | HB0092
Short description | Selective calmodulin-dependent PDE-1 inhibitor
Biological description | Selective calmodulin-dependent phosphodiesterase 1 (PDE-1) inhibitor. Increases Ca\textsuperscript{2+}-activated K\textsuperscript{+} (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 | C\textsubscript{12}H\textsubscript{18}N\textsubscript{4}O\textsubscript{3}
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