

Hello Bio, Inc.
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500
F. 609-228-4994

customercare-usa@hellobio.com



DATASHEET

CyPPA

Product overview

Name	CyPPA
Cat No	HB1044
Biological action	Activator
Purity	>99%
Description	Selective K _{Ca} 2.2 / K _{Ca} 2.3 activator

Biological Data

Biological description	Selective K _{Ca} 2.2 and K _{Ca} 2.3 activator (EC ₅₀ values are 14 and 5.6 μM respectively). Displays little or no activity at K _{Ca} 2.1 and K _{Ca} 3.1 channels. Reduces dopaminergic neuron activity and inhibits dopamine release.
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Solubility & Handling

Storage instructions	+4 °C
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	<i>N</i> -Cyclohexyl- <i>N</i> -[2-(3,5-dimethyl-pyrazol-1-yl)-6-methyl-4-pyrimidinamine]
Molecular Weight	285.39
Chemical structure	The chemical structure shows a central pyrimidine ring substituted with a methyl group at the 6-position and an N-cyclohexyl group at the 4-position. This pyrimidine ring is further substituted at the 2-position with a 1,3,5-trimethyl-1H-pyrazol-2-yl group.

Molecular Formula	C ₁₆ H ₂₃ N ₅
CAS Number	73029-73-9
PubChem identifier	909822
SMILES	CC1=NC(N2N=C(C)C=C2C)=NC(NC3CCCCC3)=C1
InChiKey	USEMRPYUFJNFQN-UHFFFAOYSA-N

References

Selective positive modulation of the SK3 and SK2 subtypes of small conductance Ca²⁺-activated K⁺ channels.

Hougaard C *et al* (2007) Br J Pharmacol 151(5)

PubMedID [17486140](#)

New positive Ca²⁺-activated K⁺ channel gating modulators with selectivity for K_{Ca}3.1.

Coleman N *et al* (2014) Mol Pharmacol 86(3)

PubMedID [24958817](#)

CyPPA, a Positive SK3/SK2 Modulator, Reduces Activity of Dopaminergic Neurons, Inhibits Dopamine Release, and Counteracts Hyperdopaminergic Behaviors Induced by Methylphenidate.

Herrick KF *et al* (2012) Front Pharmacol 3

PubMedID [22347859](#)
