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DATASHEET

CX 614

Product overview

Name	CX 614
Cat No	HB1568
Alternative names	BDP-37
Biological action	PAM
Purity	>99%
Description	AMPA receptor positive allosteric modulator (PAM)

Images



Biological Data

Biological description	AMPA receptor positive allosteric modulator (PAM) that binds at an allosteric site (subsite A) only. AMPAkinase. Modulates channel deactivation and desensitization and shows antidepressant-like activity. Rapidly upregulates BDNF levels. Active <i>in vivo</i> . CX-546 also available.
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Solubility & Handling

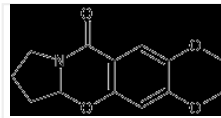
Solubility overview	Soluble in DMSO (100mM) or ethanol (100mM)
Storage instructions	+4 °C
Storage of solutions	Prepare and use solutions on the same day if possible. Store solutions at -20 °C for up to one month if storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.
Shipping Conditions	Stable for ambient temperature shipping. Follow storage instructions on receipt.
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	2,3,6a,7,8,9-Hexahydro-11H-1,4-dioxino[2,3-g]pyrrolo[2,1-b][1,3]benzoxazin-11-one, 2H,3H,6aH-Pyrrolidino[2",1"-3',2']1,3-oxazino[6',5'-5,4]benzo[e]1,4-dioxan-10-one
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Molecular Weight
Chemical structure

247.25



Molecular Formula
CAS Number
PubChem identifier
SMILES
Source
InChiKey
Appearance

C₁₃H₁₃NO₄
191744-13-5
6451148
O=C2N4C(CCC4)OC1=CC3=C(OCCO3)C=C12
Synthetic
RQEPVMAYUINZRE-UHFFFAOYSA-N
white solid

References

Effects of the potent ampakine CX614 on hippocampal and recombinant AMPA receptors: interactions with cyclothiazide and GYKI 52466.

Arai AC et al (2000) Molecular pharmacology 58

PubMedID [10999951](#)

Ampakine CX614 increases respiratory rate in a mouse model of Parkinson's disease.

Oliveira LM et al (2023) Brain research 1815

PubMedID [37301422](#)

Positive modulation of AMPA receptors increases neurotrophin expression by hippocampal and cortical neurons.

Lauterborn JC et al (2000) The Journal of neuroscience : the official journal of the Society for Neuroscience 20

PubMedID [10627576](#)
