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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)

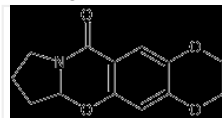
Biological Data

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

Storage instructions	+4 °C
Solubility overview	Soluble in DMSO (100mM) or ethanol (100mM)
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
Molecular Weight	247.25
Chemical structure	
Molecular Formula	C ₁₃ H ₁₃ NO ₄
CAS Number	191744-13-5
PubChem identifier	6451148
SMILES	O=C2N4C(CCC4)OC1=CC3=C(OCCO3)C=C12
Source	Synthetic
InChiKey	RQEPVMAYUINZRE-UHFFFAOYSA-N
Appearance	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](#)
