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DATASHEET

CX 546

Product overview

Name	CX 546
Cat No	HB0219
Biological action	PAM
Purity	>99%
Description	AMPA receptor positive allosteric modulator (PAM)

Images



Biological Data

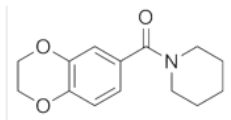
Biological description	AMPA receptor positive allosteric modulator (PAM). AMPAkin. Shows potential antipsychotic, neuroprotective actions, enhances cognitive function in rats and reverses opioid-induced respiratory depression. CX-614 also available.
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Solubility & 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-Dihydro-1,4-benzodioxin-6-yl)-1-piperidinylmethanone
Molecular Weight	247.29
Chemical structure	



Molecular Formula	C ₁₄ H ₁₇ NO ₃
CAS Number	215923-54-9
PubChem identifier	2890
SMILES	<chem>O=C(N3CCCCC3)C2=CC1=C(C=C2)OCCO1</chem>
Source	Synthetic
InChIKey	LJUNPHMOGNFFOS-UHFFFAOYSA-N
Appearance	white solid

References

The ampakine CX546 restores the prepulse inhibition and latent inhibition deficits in mGluR5-deficient mice.

Lipina T *et al* (2007) Neuropsychopharmacology 32(4)

PubMedID [16936708](#)

Mechanism and impact of allosteric AMPA receptor modulation by the ampakine CX546.

Nagarajan N *et al* (2001) Neuropharmacology 41(6)

PubMedID [11640919](#)

Ampakines alleviate respiratory depression in rats.

Ren J *et al* (2006) Am J Respir Crit Care Med 174(12)

PubMedID [16973981](#)

Blockade of the metabotropic glutamate 2/3 receptors enhances social memory via the AMPA receptor in rats.

Shimazaki T *et al* (2007) Eur J Pharmacol 575(1-3)

PubMedID [17727837](#)
