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# DATASHEET

CX 546

## Product overview

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

## Biological Data

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|---|---|
| **Biological description** | AMPA receptor positive allosteric modulator (PAM). Shows potential antipsychotic, neuroprotective actions, enhances cognitive function in rats and reverses opioid-induced respiratory depression. |

## Solubility & Handling

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| **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

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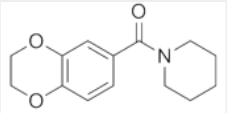
|---|---|
| **Chemical name** | (2,3-Dihydro-1,4-benzodioxin-6-yl)-1-piperidinylmethanone |
| **Molecular Weight** | 247.29 |
| **Chemical structure** |  |
| **Molecular Formula** | $C_{14}H_{17}NO_3$ |
| **CAS Number** | 215923-54-9 |
| **PubChem identifier** | 2890 |
| **SMILES** | O=C(N3CCCCC3)C2=CC1=C(C=C2)OCCO1 |
| **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