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DATASHEET

BINA

Product overview

Name	BINA
Cat No	HB0133
Alternative names	Biphenyl-indanone A; LS-193,571
Biological action	PAM
Purity	>98%
Customer comments	<i>Your BINA behaved as expected. Verified customer, Monash University</i>
Description	Potent, selective mGlu ₂ positive allosteric modulator

Images



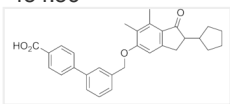
Biological Data

Biological description	Potent and selective mGlu ₂ receptor positive allosteric modulator ($EC_{50} = 33.2$ nM). Shows anxiolytic, antipsychotic effects and decreases drug addiction behaviors in rats.
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Solubility & Handling

Storage instructions	Room temperature (desiccate)
Solubility overview	Soluble in DMSO (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	3'-[[[(2-Cyclopentyl-2,3-dihydro-6,7-dimethyl-1-oxo-1H-inden-5-yl)oxy]methyl]-[1,1'-biphenyl]-4-carboxylic acid
Molecular Weight	454.56
Chemical structure	
Molecular Formula	C ₃₀ H ₃₀ O ₄
CAS Number	866823-73-6

PubChem identifier	9868580
SMILES	<chem>CC1=C(C=C2CC(C(=O)C2=C1C)C3CCCC3)OCC4=CC=CC(=C4)C5=CC=C(C=C5)C(=O)O</chem>
InChi	InChI=1S/C30H30O4/c1-18-19(2)28-25(15-26(29(28)31)22-7-3-4-8-22)16-27(18)34-17-20-6-5-9-24(14-20)21-10-12-23(13-11-21)30(32)33/h5-6,9-14,16,22,26H,3-4,7-8,15,17H2,1-2H3,(H,32,33)
InChiKey	KMKBEESNZAPKMP-UHFFFAOYSA-N
MDL number	MFCD19440914

References

Biphenyl-indanone A, a positive allosteric modulator of the metabotropic glutamate receptor subtype 2, has antipsychotic- and anxiolytic-like effects in mice.

Galici R *et al* (2006) *J Pharmacol Exp Ther* 318(1)

PubMedID [16608916](#)

A selective positive allosteric modulator of metabotropic glutamate receptor subtype 2 blocks a hallucinogenic drug model of psychosis.

Benneyworth MA *et al* (2007) *Mol Pharmacol* 72(2)

PubMedID [17526600](#)

The mGluR2 positive allosteric modulator BINA decreases cocaine self-administration and cue-induced cocaine-seeking and counteracts cocaine-induced enhancement of brain reward function in rats.

Jin X *et al* (2010) *Neuropsychopharmacology* 35(10)

PubMedID [20555310](#)
