

**Product Name:** BINA

**Catalog No.:** 4048

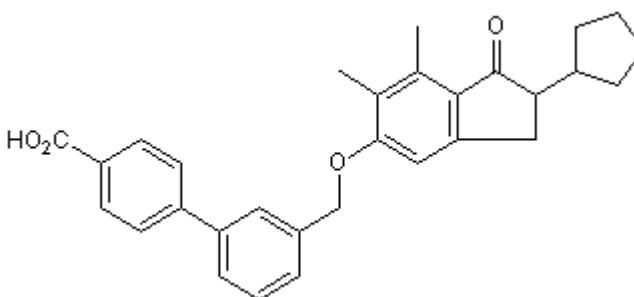
**Batch No.:** 2

CAS Number: 866823-73-6

IUPAC Name: 3'-[[[(2-Cyclopentyl-2,3-dihydro-6,7-dimethyl-1-oxo-1*H*-inden-5-yl)oxy]methyl]-[1,1'-biphenyl]-4-carboxylic acid

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>30</sub>H<sub>30</sub>O<sub>4</sub>  
**Batch Molecular Weight:** 454.56  
**Physical Appearance:** Off-white solid  
**Solubility:** DMSO to 100 mM  
**Storage:** Desiccate at RT  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.39 (Dichloromethane:Methanol [9:1])  
**HPLC:** Shows 100% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	79.27	6.65	
Found	78.81	6.63	

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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**Description:**

Selective positive allosteric modulator of mGlu<sub>2</sub> (EC<sub>50</sub> = 33.2 nM in CHO cells expressing human mGlu<sub>2</sub>). Displays no effect on glutamate-induced activation of other mGlu receptor subtypes. Exhibits antipsychotic and anxiolytic properties in mice.

**Physical and Chemical Properties:**

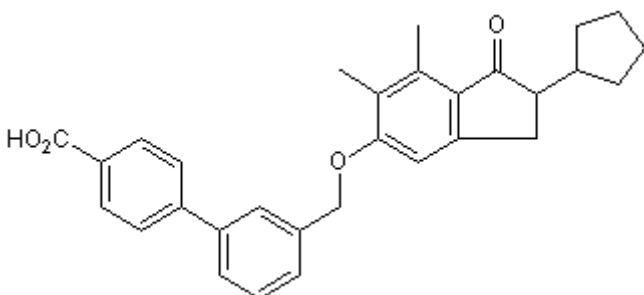
Batch Molecular Formula: C<sub>30</sub>H<sub>30</sub>O<sub>4</sub>

Batch Molecular Weight: 454.56

Physical Appearance: Off-white solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Desiccate at RT

**Solubility & Usage Info:**

DMSO to 100 mM

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**

**Bonnefous et al** (2005) Biphenyl-indanones: allosteric potentiators of the metabotropic glutamate subtype 2 receptor. *Bioorg.Med.Chem.Lett.* **15** 4354. PMID: 16046122.

**Galici et al** (2006) Biphenyl-indanone A, a positive allosteric modulator of the metabotropic glutamate receptor subtype 2, has antipsychotic- and anxiolytic-like effects in mice. *J.Pharmacol.Exp.Ther.* **318** 173. PMID: 16608916.

**Benneworth et al** (2007) A selective positive allosteric modulator of metabotropic glutamate receptor subtype 2 blocks a hallucinogenic drug model of psychosis. *Mol.Pharmacol.* **72** 477. PMID: 17526600.

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