

**Product Name:** NIBR 189

**Catalog No.:** 5203

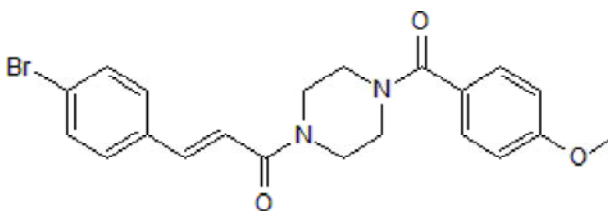
**Batch No.:** 1

CAS Number: 1599432-08-2

IUPAC Name: (2E)-3-(4-Bromophenyl)-1-[4-(4-methoxybenzoyl)-1-piperazinyl]-2-propene-1-one

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>21</sub>H<sub>21</sub>BrN<sub>2</sub>O<sub>3</sub>  
**Batch Molecular Weight:** 429.31  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 100 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.5 (Chloroform:Methanol [95:5])  
**HPLC:** Shows 99.8% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	58.75	4.93	6.53
Found	58.7	4.91	6.42

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

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**Description:**

Potent and selective EB12 (GPR183) receptor antagonist (IC<sub>50</sub> values are 11 and 15 nM for human and mouse EB12 receptors respectively). Exhibits selectivity for EB12 over a panel of other receptors, enzymes and transporters. Blocks oxysterol-induced migration of U937 monocytic cells. Orally bioavailable.

**Physical and Chemical Properties:**

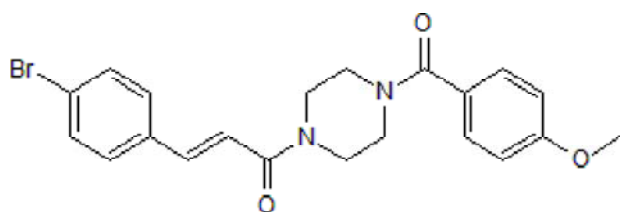
Batch Molecular Formula: C<sub>21</sub>H<sub>21</sub>BrN<sub>2</sub>O<sub>3</sub>

Batch Molecular Weight: 429.31

Physical Appearance: White solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**Storage:** Store at +4°C

**CAUTION** - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

**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:**

**Gessier et al** (2014) Identification and characterization of small molecule modulators of the Epstein-Barr virus-induced gene 2 (EB12) receptor. *J.Med.Chem.* **57** 3358. PMID: 24678947.

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