

**Product Name:** JZL 195

**Catalog No.:** 4715

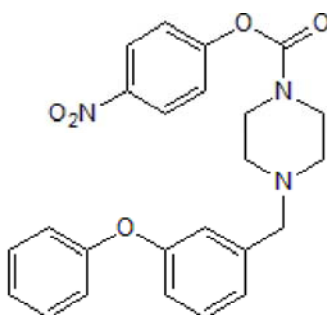
**Batch No.:** 2

CAS Number: 1210004-12-8

IUPAC Name: 4-[(3-Phenoxyphenyl)methyl]-1-piperazinecarboxylic acid 4-nitrophenyl ester

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>24</sub>H<sub>23</sub>N<sub>3</sub>O<sub>5</sub>.  
**Batch Molecular Weight:** 433.46  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 50 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 99.8% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	66.5	5.35	9.69
Found	66.33	5.39	9.73

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

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**Description:**

JZL 195 is a dual inhibitor of fatty acid amide hydrolase (FAAH) and monoacylglycerol lipase (MAGL) (IC<sub>50</sub> values are 2 and 4 nM respectively). Elevates anandamide and 2-arachidonoylglycerol levels in vivo. Shown to impair short-term memory in mice.

**Physical and Chemical Properties:**

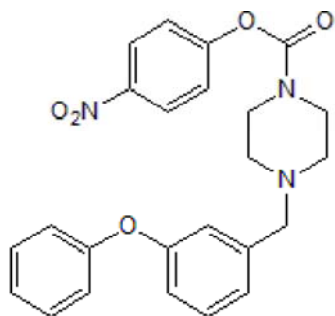
Batch Molecular Formula: C<sub>24</sub>H<sub>23</sub>N<sub>3</sub>O<sub>5</sub>.

Batch Molecular Weight: 433.46

Physical Appearance: White solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

DMSO to 50 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:**

**Wise *et al*** (2012) Dual fatty acid amide hydrolase and monoacylglycerol lipase blockade produces THC-like Morris water maze deficits in mice. *ACS Chem.Neurosci.* **3** 369. PMID: 22860205.

**Wiskerke *et al*** (2012) Characterization of the effects of reuptake and hydrolysis inhibitor on interstitial endocannabinoid levels in the brain: an in vivo microdialysis study. *ACS Chem.Neurosci.* **3** 407. PMID: 22860210.

**Long *et al*** (2009) Dual blockade of FAAH and MAGL identifies behavioral processes regulated by endocannabinoid crosstalk in vivo. *Proc.Natl.Acad.Sci.USA* **106** 20270. PMID: 19918051.

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**bio-techne.com**

info@bio-techne.com

techsupport@bio-techne.com

**North America**

Tel: (800) 343 7475

**China**

info.cn@bio-techne.com

Tel: +86 (21) 52380373

**Europe Middle East Africa**

Tel: +44 (0)1235 529449

**Rest of World**

www.tocris.com/distributors

Tel:+1 612 379 2956