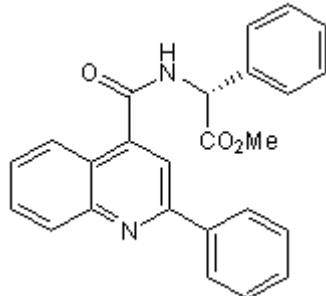


**Certificate of Analysis**[www.tocris.com](http://www.tocris.com)**Product Name:** SB 218795**Catalog No.:** 1376**Batch No.:** 1**CAS Number:** 174635-53-1**IUPAC Name:** (R)-[[2-Phenyl-4-quinoliny]carbonyl]amino]-methyl ester benzeneacetic acid**1. PHYSICAL AND CHEMICAL PROPERTIES****Batch Molecular Formula:** C<sub>25</sub>H<sub>20</sub>N<sub>2</sub>O<sub>3</sub>**Batch Molecular Weight:** 396.44**Physical Appearance:** White solid**Solubility:** DMSO to 100 mM  
ethanol to 5 mM**Storage:** Store at RT**Batch Molecular Structure:****2. ANALYTICAL DATA****TLC:** R<sub>f</sub> = 0.58 (Ethyl acetate:Petroleum ether [1:1])**Melting Point:** At 180°C**HPLC:** Shows >99.3% purity**<sup>1</sup>H NMR:** Consistent with structure**Optical Rotation:** [α]<sub>D</sub> = -41.6 (Concentration = 0.5, Solvent = Methanol)**Microanalysis:** Carbon Hydrogen Nitrogen

Theoretical 75.74 5.08 7.07

Found 75.63 5.09 6.88

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

**bio-technne.com**

info@bio-technne.com

techsupport@bio-technne.com

**North America**

Tel: (800) 343 7475

**China**

info.cn@bio-technne.com

Tel: +86 (21) 52380373

**Europe Middle East Africa**

Tel: +44 (0)1235 529449

**Rest of World**[www.tocris.com/distributors](http://www.tocris.com/distributors)

Tel: +1 612 379 2956

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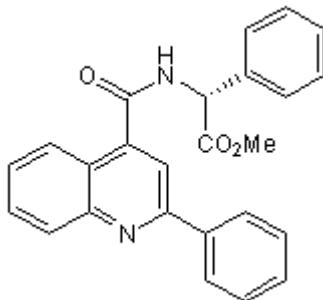
**Description:**

Potent, selective and competitive non-peptide NK<sub>3</sub> receptor antagonist (K<sub>i</sub> = 13 nM at hNK<sub>3</sub>). Displays 90-fold and 7000-fold selectivity over hNK<sub>2</sub> and hNK<sub>1</sub> receptors respectively. Active in vivo, inhibiting agonist-induced pupillary constriction.

**Physical and Chemical Properties:**Batch Molecular Formula: C<sub>25</sub>H<sub>20</sub>N<sub>2</sub>O<sub>3</sub>

Batch Molecular Weight: 396.44

Physical Appearance: White solid

**Minimum Purity:** >99%**Batch Molecular Structure:****Storage:** Store at RT**Solubility & Usage Info:**DMSO to 100 mM  
ethanol to 5 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:**

**Giardina et al** (1997) Discovery of a novel class of selective non-peptide antagonists for the human neurokinin-3 receptor. 1. Identification of the 4-quinolinecarboxamide framework. *J.Med.Chem.* **40** 1794. PMID: 9191956.

**Medhurst et al** (1997) *In vitro* and *in vivo* characterization of NK<sub>3</sub> receptors in the rabbit eye by use of selective non-peptide NK<sub>3</sub> receptor antagonists. *Br.J.Pharmacol.* **122** 469. PMID: 9351503.

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**bio-technne.com**info@bio-technne.com  
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Tel: (800) 343 7475

**China**info.cn@bio-technne.com  
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