

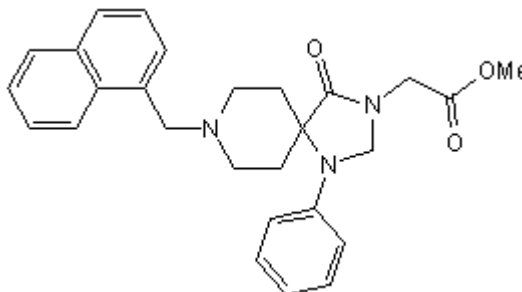
## Certificate of Analysis

[www.tocris.com](http://www.tocris.com)

**Product Name:** NNC 63-0532 **Catalog No.:** 1780 **Batch No.:** 1  
**CAS Number:** 250685-44-0  
**IUPAC Name:** 8-(1-Naphthalenylmethyl)-4-oxo-1-phenyl-1,3,8-triazaspiro[4.5]decane-3-acetic acid, methyl ester

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>27</sub>H<sub>29</sub>N<sub>3</sub>O<sub>3</sub>  
**Batch Molecular Weight:** 443.54  
**Physical Appearance:** White crystalline solid  
**Solubility:** ethanol to 5 mM  
DMSO to 50 mM  
**Storage:** Store at RT  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.67 (Dichloromethane:Methanol:Ammonia soln. [95:5:1])  
**Melting Point:** Between 141 - 143°C  
**HPLC:** Shows 98.6% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	73.12	6.59	9.47
Found	73.08	6.71	9.47

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

**Product Name:** NNC 63-0532

**Catalog No.:** 1780

**Batch No.:** 1

CAS Number: 250685-44-0

IUPAC Name: 8-(1-Naphthalenylmethyl)-4-oxo-1-phenyl-1,3,8-triazaspiro[4.5]decane-3-acetic acid, methyl ester

**Description:**

Potent non-peptide agonist for the NOP receptor ( $EC_{50} = 305$  nM,  $K_i = 7.3$  nM); ~ 12-fold selective over other receptors. Centrally active following systemic administration in vivo.

**Physical and Chemical Properties:**

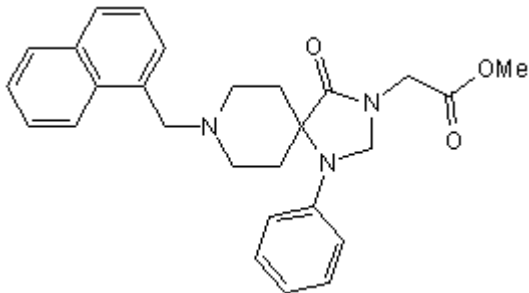
Batch Molecular Formula:  $C_{27}H_{29}N_3O_3$

Batch Molecular Weight: 443.54

Physical Appearance: White crystalline solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Store at RT

**Solubility & Usage Info:**

ethanol to 5 mM

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:**

**Thomsen and Hohlweg** (2000) (8-Naphthalen-1-ylmethyl-4-oxo-1-phenyl-1,3,8-triaza-spiro[4.5]-dec-3-yl)-acetic acid methyl ester (NNC 63-0532) is a novel potent nociceptin receptor agonist. *Br.J.Pharmacol.* **131** 903. PMID: 11053209.

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

**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