

# Certificate of Analysis

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**Product Name:** SUN 11602

**Catalog No.:** 4826

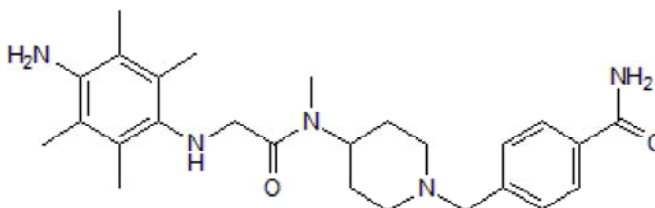
**Batch No.:** 2

**CAS Number:** 704869-38-5

**IUPAC Name:** 4-[[4-[[2-[(4-Amino-2,3,5,6-tetramethylphenyl)amino]acetyl]methylamino]-1-piperidinyl]methyl]benzamide

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>26</sub>H<sub>37</sub>N<sub>5</sub>O<sub>2</sub>  
**Batch Molecular Weight:** 451.61  
**Physical Appearance:** Off White solid  
**Solubility:** DMSO to 50 mM  
 ethanol to 20 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.37 (Dichloromethane:Methanol [9:1])  
**HPLC:** Shows 98.0% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon Hydrogen Nitrogen		
Theoretical	69.15	8.26	15.51
Found	68.95	8.24	15.33

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

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## Product Information

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### Description:

Basic fibroblast growth factor (bFGF) mimetic. Mimics the neuroprotective effects of bFGF; prevents glutamate-induced neuronal death. Increases levels of CALB1 gene expression in cerebrocortical neurons. Triggers phosphorylation of FGFR, ERK1 and ERK2.

### Physical and Chemical Properties:

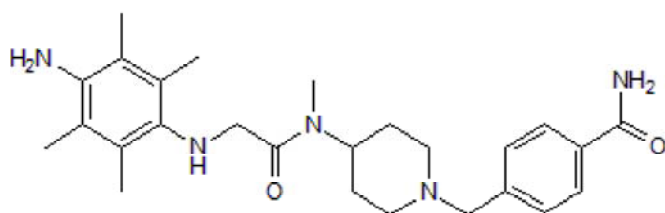
Batch Molecular Formula: C<sub>26</sub>H<sub>37</sub>N<sub>5</sub>O<sub>2</sub>

Batch Molecular Weight: 451.61

Physical Appearance: Off White solid

**Minimum Purity:** >98%

### Batch Molecular Structure:



**Storage:** Store at -20°C

### Solubility & Usage Info:

DMSO to 50 mM

ethanol to 20 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:

**Murayama et al** (2013) SUN11602, a novel aniline compound, mimics the neuroprotective mechanisms of basic fibroblast growth factor. *ACS Chem.Neurosci.* **4** 266. PMID: 23421678.

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