

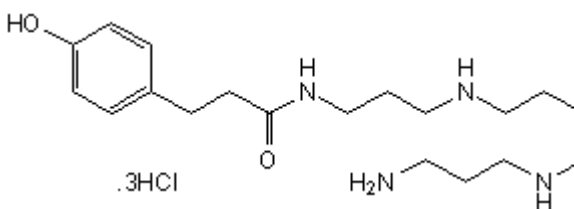
## Certificate of Analysis

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**Product Name:** *N*-(4-Hydroxyphenylpropanoyl)spermine trihydrochloride      **Catalog No.:** 0291      **Batch No.:** 3  
**CAS Number:** 130631-59-3  
**IUPAC Name:** *N*-(*N*-(4-Hydroxyphenylpropanoyl)-3-aminopropyl)-(3-aminopropyl)-1,4-butanediamine trihydrochloride

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>19</sub>H<sub>34</sub>N<sub>4</sub>O<sub>2</sub>·3HCl·1¾H<sub>2</sub>O  
**Batch Molecular Weight:** 491.41  
**Physical Appearance:** Clear lyophilised solid  
**Solubility:** water to 50 mM  
**Storage:** Desiccate at -20°C  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.15 (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	46.44	8.31	11.4
Found	46.47	7.72	11.1

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**Description:**

Wasp toxin analog. More potent than PhTX-343 at locust NMJ.

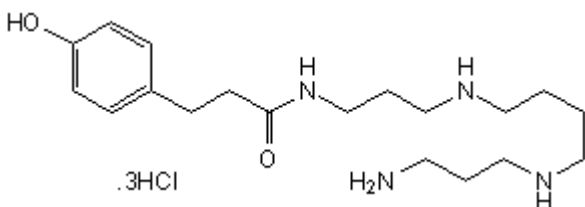
**Physical and Chemical Properties:**

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Batch Molecular Weight: 491.41

Physical Appearance: Clear lyophilised solid

**Batch Molecular Structure:**



**Storage:** Desiccate at -20°C

**Solubility & Usage Info:**

water to 50 mM

**CAUTION** - Solutions of this product should be kept cold and used only on day of preparation This product is supplied as a lyophilised solid and may be very hard to visualise. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

**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:**

**Bycroft et al** (1990) Invertebrate pharmacological assay of novel, potent glutamate antagonists: acylated spermines. *Eur.J.Pharmacol.* **183** 470.

**Smith et al** (1990) Mono-acylated spermines: antagonists of glutamate receptors. *Eur.J.Pharmacol.* **183** 472.

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