

## Certificate of Analysis

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**Product Name:** SKF 97541

**Catalog No.:** 0379

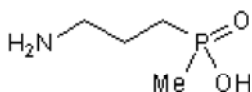
**Batch No.:** 7

CAS Number: 127729-35-5

IUPAC Name: 3-Aminopropyl(methyl)phosphinic acid

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>4</sub>H<sub>12</sub>NO<sub>2</sub>P  
**Batch Molecular Weight:** 137.12  
**Physical Appearance:** White solid  
**Solubility:** water to 100 mM  
**Storage:** Desiccate at RT  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon Hydrogen Nitrogen		
Theoretical	35.04	8.82	10.21
Found	34.95	8.91	10.1

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

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**Batch No.:** 7

CAS Number: 127729-35-5

IUPAC Name: 3-Aminopropyl(methyl)phosphinic acid

**Description:**

SKF 97541 is a potent GABA<sub>B</sub> agonist (EC<sub>50</sub> = 50 nM). SKF 97541 depresses striatal synaptic potentials and hyperpolarizes nigral neurons (EC<sub>50</sub> values = 92 nM and 150 nM, respectively). SKF 97541 shows antidepressant effects in animal models and is also a GABA<sub>A-p</sub> antagonist.

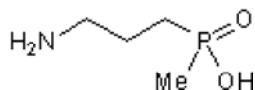
**Physical and Chemical Properties:**

Batch Molecular Formula: C<sub>4</sub>H<sub>12</sub>NO<sub>2</sub>P

Batch Molecular Weight: 137.12

Physical Appearance: White solid

**Batch Molecular Structure:**



**Storage:** Desiccate at RT

**Solubility & Usage Info:**

water to 100 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:**

**Bon and Galvan** (1996) Electrophysiological characterization of GABA<sub>B</sub> agonists and antagonists in dorso-lateral septal neurones *in vitro*. Br.J.Pharmacol. **118** 961. PMID: 8799569.

**Johnston** (1996) GABA<sub>C</sub> receptors: relatively simple transmitter-gated ion channels? TIPS **17** 319. PMID: 8885697.

**Froestl et al** (1995) Phosphinic acid analogues of GABA. 1. New potent and selective GABA<sub>B</sub> agonists. J.Med.Chem. **38** 3297. PMID: 7650684.

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