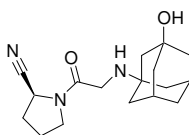




## Certificate of Analysis

**Axon Catalogue ID:** 1631 **Batch Number:** 1  
**Product Name:** Vildagliptin  
**Alternative Name(s):** NVP-LAF237  
**IUPAC Name:** (S)-1-(2-(3-hydroxy-1-adamantylamino)acetyl)pyrrolidine-2-carbonitrile

**Structure:**



**Amount:**

**CAS number:** 274901-16-5  
**Batch Molecular Formula:** C<sub>17</sub>H<sub>25</sub>N<sub>3</sub>O<sub>2</sub> **Batch MW:** 303.40  
**Appearance:** White solid **Observed mp:** 144.0 - 148.3 °C  
**TLC (R<sub>f</sub>):** 0.25 DCM/MeOH (9:1)  
**Chemical Purity:** 99.7%  
**Optical Purity (ee):**  
**<sup>1</sup>H-NMR (300 MHz):** Analytical data confirm chemical structure  
**Mass Spec:** Analytical data confirm chemical structure  
**Microanalysis:** Calculated: C 67.30 , H 8.31 , N 13.85 Found: C ND , H ND , N ND  
**Storage Conditions:** Store at +4°C

<b>Solubility Data:</b>	<b>Solvent</b>	<b>Solubility (mg/ml)</b>	<b>Solubility (mM)</b>	<b>Remarks</b>
	Water	30.3	>100 mM	
	0.1N NaOH (aq)			Not Tested
	0.1N HCl (aq)			Not Tested
	DMSO	30.3	>100 mM	
	EtOH			Not Tested

**Remarks:**

**QC Date:** 04-02-2011

The purity of Axon Ligands is confirmed by HPLC, MS, NMR and/or microanalysis. Analytical data are available upon request. Request can be submitted by e-mail to [info@axonmedchem.com](mailto:info@axonmedchem.com) indicating Catalogue ID and Batch number.

**Caution: Not fully tested. For research purposes only**