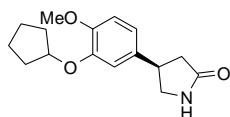




## Certificate of Analysis

**Axon Catalogue ID:** 1229 **Batch Number:** 2  
**Product Name:** (R)-(-)-Rolipram  
**Alternative Name(s):** N.A.  
**IUPAC Name:** (4R)-4-[3-(Cyclopentyloxy)-4-methoxyphenyl]pyrrolidin-2-one

**Structure:**



**Amount:**

**CAS number:** 85416-75-7  
**Batch Molecular Formula:** C<sub>16</sub>H<sub>21</sub>NO<sub>3</sub>·0.125H<sub>2</sub>O **Batch MW:** 277.60  
**Appearance:** White Solid **Observed m.p.:** 135-136  
**TLC (R<sub>f</sub>):** 0.6 9:1 DCM/MeOH  
**Chemical Purity:** 99.2% **Wavelength for purity check:** 203 nm  
**Optical Purity (ee):** 99.8%  
**<sup>1</sup>H-NMR (300 MHz):** Analytical data confirm chemical structure  
**Mass Spec:** Analytical data confirm chemical structure  
**Microanalysis:** C, H, and N fit within 0,4% of theoretical calculation

**Storage Conditions:** Desiccate at <4°C

<b>Solubility Data:</b>	<b>Solvent</b>	<b>Solubility (mg/ml)</b>	<b>Solubility (mM)</b>	<b>Remarks</b>
	Water			
	1eq. NaOH			
	1eq. HCl			
	DMSO	60	216	
	EtOH	30	108	

**Remarks:**

**Quality controller:** M. Brandsma, MSc. **Date:** 5/12/2011

The purity of Axon products 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 Axon Catalogue ID and Batch number.

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