

## CERTIFICATE OF ANALYSIS

PRODUCT:	<b>(R,S)- Rolipram</b> PDE inhibitor; (R,S)-4-(3-(Cyclopentyloxy)-4-methoxyphenyl)pyrrolidin-2-one <b>C<sub>16</sub>H<sub>21</sub>NO<sub>3</sub>, M.W. 275.35, CAS# [61413-54-5]</b>
PRODUCT NUMBER:	R-1012
LOT NUMBER:	F1254D
APPEARANCE:	White to Off-white solid
ANALYSIS (TLC):	> 98%
NMR :	Conforms
MELTING POINT:	128-129°C
SOLUBILITY:	Soluble in DMSO or Ethanol @ 25mg/ml warm.
PHARMACOLOGY:	A selective phosphodiesterase (PDE4) inhibitor (IC <sub>50</sub> = 1 μM). Increases the phosphorylation of CREB. Displays beneficial effects in neurodegenerative diseases. Displays anti-inflammatory activity and synergizes with forskolin. Cell permeable.
STORAGE & HANDLING:	Store desiccated at +4°C. <b><u>WARNING: IRRITANT!</u></b> CAUTION: For research use only. Not for human or drug use. The pharmacological and toxicological properties of this product have not been fully investigated. Use caution when handling. Do not use this compound if you are not fully trained or are unaware of the hazards involved.

Verified: SK