

Catalogue Number	Product	Order number / Unit
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6000**Rolipram**Reference standard for [¹¹C]Rolipram**Molar Mass:** 275.35C₁₆H₂₁NO₃

[61413-54-5]

Yellowish solid packaged in dark glass screw cap vials.

Purity: > 95 %**Certificates:**CoA; ¹H NMR spectrum**Chemical Name:**

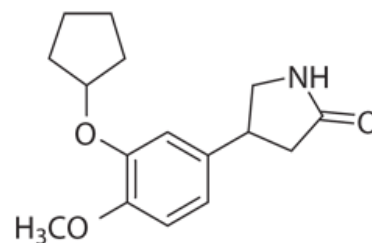
CA index name: 2-Pyrrolidinone, 4-[3-(cyclopentyloxy)-4-methoxyphenyl]-

Synonyms:

4-[3-(Cyclopentyloxy)-4-methoxyphenyl]-2-pyrrolidinone; (±)-Rolipram; (R,S)-Rolipram; Rolipram; SB 95952; ZK 62711

Literature:

1. Kenk M. et al. In vivo selective binding of (R)-[¹¹C]rolipram to phosphodiesterase-4 provides the basis for studying intracellular cAMP signaling in the myocardium and other peripheral tissues. *Nucl. Med. Biol.* 2007, 34, 71-77.
2. Parker C.A. et al. Behaviour of [¹¹C]R(-)- and [¹¹C]S(+)-rolipram in vitro and in vivo, and their use as PET radiotracers for the quantitative assay of PDE4. *Synapse* 2005, 55, 270-279.
3. Lourenco C.M. et al. Characterization of R-[¹¹C]rolipram for PET imaging of phosphodiesterase-4: in vivo binding, metabolism, and dosimetry studies in rats. *Nucl. Med. Biol.* 2001, 28, 347-358.
4. Tsukada H. et al. Facilitation of dopaminergic neural transmission does not affect [¹¹C]SCH23390 binding to the striatal D1 dopamine receptors, but the facilitation enhances phosphodiesterase type-IV activity through D1 receptors: PET studies in the conscious monkey brain. *Synapse* 2001, 42, 258-265.

6000.0010: 10 mg per vial
Please inquire for customized filling and bulk quantities.

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