

Catalogue Number	Product	Order number / Unit
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**6030**      **Desmethyl-Rolipram**  
**Precursor for [<sup>11</sup>C]Rolipram**

**Molar Mass:** 261.32

C<sub>15</sub>H<sub>19</sub>NO<sub>3</sub>

[150519-28-1]

Yellowish solid packaged in dark glass screw cap vials.

**Purity:** > 95 %

**Certificates:**

CoA; <sup>1</sup>H NMR spectrum

**Chemical Name:**

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

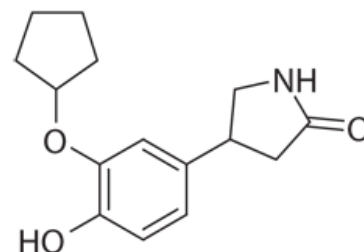
**Synonymes:**

Desmethyl-Rolipram; (±)-Desmethyl-Rolipram; (R,S)-Desmethyl-Rolipram

**Literature:**

1. Kenk M. et al. In vivo selective binding of (R)-[<sup>11</sup>C]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 [<sup>11</sup>C]R(-)- and [<sup>11</sup>C]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-[<sup>11</sup>C]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 [<sup>11</sup>C]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.

**6030.0010: 10 mg per vial**  
**Please inquire for customized filling and bulk quantities.**



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