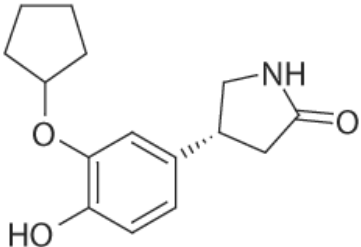


Catalogue Number	Product	Order number / Unit
6050	(R)-(-)-Desmethyl-Rolipram Precursor for R-(-)-[¹¹C]Rolipram Molar Mass: 261.32 $C_{15}H_{19}NO_3$ [347148-59-8] Colourless solid packaged in dark glass screw cap vials. Purity: > 95 % Certificates: CoA; ¹ H NMR spectrum Chemical Name: CA index name: 2-Pyrrolidinone, 4-[3-(cyclopentyloxy)-4-hydroxyphenyl]-, (4R)- Synonyms: R-Desmethyl-Rolipram; (-)-Desmethyl-Rolipram Literature: Kenk M. et al. In vivo selective binding of (R)-[¹¹ C]rolipram to phosphodiesterase-4 provides the basis for studying intracellular cAMP signaling in the myocardium and other peripheral tissues. <i>Nucl. Med. Biol.</i> 2007, 34, 71-77. Parker C.A. et al. Behaviour of [¹¹ C]R(-)- and [¹¹ C]S(+)-rolipram in vitro and in vivo, and their use as PET radiotracers for the quantitative assay of PDE4. <i>Synapse</i> 2005, 55, 270-279. Lourenco C.M. et al. Characterization of R-[¹¹ C]rolipram for PET imaging of phosphodiesterase-4: in vivo binding, metabolism, and dosimetry studies in rats. <i>Nucl. Med. Biol.</i> 2001, 28, 347-358. Tsukada H. et al. Facilitation of dopaminergic neural transmission does not affect [¹¹ 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. <i>Synapse</i> 2001, 42, 258-265.	6050.0010: 10 mg per vial Please inquire for customized filling and bulk quantities.  The chemical structure shows a central benzene ring with a hydroxyl group (-OH) at the 4-position and a cyclopentyloxy group (-O-C5H9) at the 3-position. This benzene ring is connected via a dashed bond to the 4-position of a pyrrolidinone ring (a five-membered ring with one nitrogen atom and a carbonyl group).

date of product catalogue issue: 10 May 2017