

(S) - (+) -Rolipram

Catalog No: tcsc2478



Available Sizes

Size: 10mg

Size: 50mg

Size: 100mg



Specifications

CAS No:

85416-73-5

Formula:

$C_{16}H_{21}NO_3$

Pathway:

Metabolic Enzyme/Protease

Target:

Phosphodiesterase (PDE)

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Alternative Names:

(+)-Rolipram;(S)-Rolipram

Observed Molecular Weight:

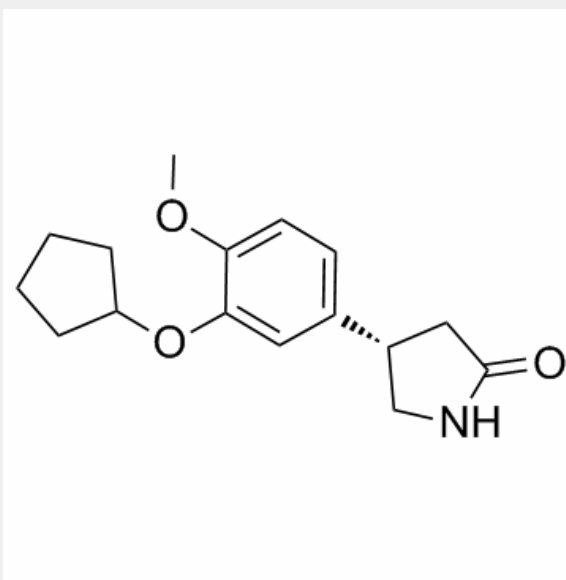
275.34

Product Description

(S)-(+)-Rolipram is a PDE4-inhibitor and an anti-inflammatory agent, less potent than its R enantiomer.

Target: PDE4B; PDE4D

Rolipram, a selective inhibitor of the cyclic AMP-specific phosphodiesterase (PDE IV). Rolipram did not inhibit 5-lipoxygenase activity but did inhibit human monocyte production of leukotriene B₄ (LTB₄, IC₅₀ 3.5 microM). Rolipram inhibited arachidonic acid-induced inflammation in the mouse, while the low Km-cyclic-GMP PDE inhibitor. Rolipram had a modest effect on LTB₄ production in the mouse, but markedly reduced LTB₄-induced PMN infiltration [1]. In humans and animals rolipram produces thereby a variety of biological effects. These effects include attenuation of endogenous depression and inflammation in the central nervous system (CNS), both effects are of potential clinical relevance [2].



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!