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产品名称: (4R)-4-[3-(环戊氧基)-4-甲氧基苯基]吡咯-2-酮
产品别名: (R)-(-)-Rolipram; (R)-Rolipram; (-)-Rolipram

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| 生物活性: | | | | |
| Description | (R)-(-)-Rolipram is the R-enantiomer of Rolipram. Rolipram is a selective inhibitor of phosphodiesterases PDE4 with IC_{50} of 3 nM, 130 nM and 240 nM for PDE4A, PDE4B, and PDE4D, respectively. | | | |
| In Vitro | The increase of cAMP synthesis with the adenylate cyclase activator forskolin or the decrease of cAMP hydrolysis by the phosphodiesterase inhibitors Isobutylmethylxanthine (IBMX) and (R)-(-)-Rolipram (MedChem Express) suppresses caspase-1 cleavage and IL-1 β secretion in a dose-dependent manner[1]. | | | |
| Solvent&Solubility | In Vitro: DMSO : ≥ 49 mg/mL (177.96 mM) * "≥" means soluble, but saturation unknown. | | | |
| | <div>Preparing Stock Solutions</div> | <div>Solvent Mass Concentration</div> | 1 mg | 5 mg |
| | | 1 mM | 3.6319 mL | 18.1594 mL |
| | | 5 mM | 0.7264 mL | 3.6319 mL |
| | | 10 mM | 0.3632 mL | 1.8159 mL |
| | *请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液。一旦配成溶液, 请分装保存, 避免反复冻融造成的产品失效。 储备液的保存方式和期限: -80°C, 6 months; -20°C, 1 month。 -80°C 储存时, 请在 6 个月内使用, -20°C 储存时, 请在 1 个月内使用。 | | | |
| References | [1]. Guo C, et al. Bile Acids Control Inflammation and Metabolic Disorder through Inhibition of NLRP3 Inflammasome. Immunity. 2016 Oct 18;45(4):944. | | | |