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L002 (NSC764414)

产品编号： D50862

CAS: 321695-57-2

分子式： C15H15NO5S

纯度： ≥98%

InChi: InChI=1S/C15H15NO5S/c1-10-8-12(9-11(2)15(10)17)16-21-22(18,19)14-6-4-13(20-3)5-7-14/h4-9H,1-3H3

InChi Key: VEWFTYOFWIXCIO-UHFFFAOYSA-N

Smiles: COC1C=CC(=CC=1)S(=O)(=O)ON=C1C=C(C)C(=O)C(C)=C1

外观： 固体粉末

作用通路： Histone Acetyltransferase

溶解性： DMSO up to 100 mM

保存条件： Store in dry, dark place for one year.

产品介绍： L002 (NSC764414) is a novel selective, cell permeable and reversible inhibitor of p300 histone acetyl transferase (IC50 ~1.98 μM). It has no activity in histone methyltransferases tested, including DOT1, EZH1, G9a, PRMT1, SETD2, SET7-9, SMYD2, and SUV39H2 etc. L002 was shown to occupy Ac-CoA binding pocket of p300, and is less potent to CBP, PCAF, GCN5 and GNAT. It suppresses Histone H3 and H4 acetylation in triple negative breast cancer cell line MDAMB-468 as well as in HCT116 cell line and blocks p300-mediated STAT3 phosphorylation in pancreatic cancer cell line MIA Paca-2. L002 can suppress tumor growth and histone acetylation in a mouse MDA-MB-468 xenograft model.

基本信息：

CAS：321695-57-2

分子式：C15H15NO5S

分子量：321.35

纯度：≥98%

溶解性：溶于DMSO : 62.5 mg/mL (194.49 mM; Need ultrasonic)

性状：白色固体

产品简介：

L002 是一种有效的，细胞可渗透的，可逆的和特定的乙酰转移酶 p300(KAT3B) 抑制剂，IC50 为 1.98 μM。 L002 结合乙酰辅酶 A 口袋并竞争性抑制 FATp300 催化结构域，阻断组蛋白乙酰化和 p53 乙酰化，且抑制 STAT3 激活。L002 有潜力用于高血压引起的心脏肥大和纤维化的研究。

作用靶点：Histone Acetyltransferase; STAT;

作用通路：Epigenetics; JAK/STAT Signaling; Stem Cell/Wnt;

体外研究：Cancer; Inflammation/Immunology;