

AEBSF hydrochloride

产品编号: D50381

CAS: 30827-99-7

保存条件: Store at -20°C for 3 year(Powder); In DMSO or others solvent store at 2-4°C for two weeks, at -20°C for six months.

产品介绍: **基本信息:**

CAS: 30827-99-7

分子式: $C_8H_{10}FNO_2S \cdot HCl$

分子量: 239.69

MDL: MFCD00132962

级别: >97% by HPLC

溶解性: 溶于水。H₂O: 可溶性50mg/mL (如果在pH值低于7的条件下冷藏, 则可稳定长达6个月。如果要求pH值大于7, 应在使用前进行pH值调整。)

性状: 白色粉末

敏感性: 易吸潮

作用靶点: Thrombin; Influenza Virus;

作用通路: Metabolic Enzyme/Protease; Anti-infection;

用途: 蛋白酶抑制剂, 是一种水溶性的乳糜蛋白酶、激肽释放酶、纤溶酶、凝血酶、胰蛋白酶和相关溶栓酶的特异性不可逆抑制剂。PMSF和DFP的无毒替代品。AEBSF在pH7的水溶液中4°C可保持稳定1-2个月, 但在低pH条件下更稳定。推荐使用浓度为: 0.1-1.0 mM。AEBSF已用于细胞培养, 使用浓度可达0.25mM。

体外研究:

AEBSF inhibits the constitutive production of A β by directly inhibiting β -secretase in five different human cell lines, both neural and nonneural. AEBSF, as a serine protease inhibitor, inhibits the lysis of leukemic cells by human macrophages without inhibiting macrophage secretion of TNF- α and IL-1 β . AEBSF also disturbs the growth of blastocysts on endometrial cells and inhibit the adhesion of HeLa cells on HUVECs by altering the protein secretion pattern.

体内研究:

AEBSF (76.8 mg/kg daily i.p.) results in prolongation of the survival of mice that have been given a lethal T. gondii infection. AEBSF also reduces airway response and underlying inflammation in cockroach allergen-induced murine model.

