

Product Data Sheet

Product Name: MMP-3 Inhibitor VIII

Cat. No.: GC40624

Chemical Properties

Cas. No. 208663-26-7

SMILES COC1=CC=C(S(N(CC2=CC=CC=C2)C(CC(C)C)C(NO)=O)(=O)=O)C=C1

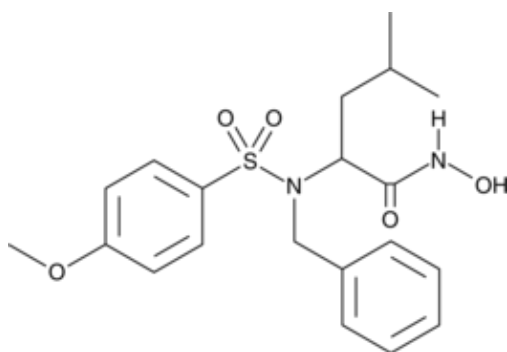
Formula C₂₀H₂₆N₂O₅S M.Wt 406.5

Solubility DMF: 30 mg/ml, DMSO: 30 mg/ml, DMSO:PBS (pH 7.2) (1:1): 0.5 mg/ml, Ethanol: 10 mg/ml
Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

Matrix metalloproteinases (MMPs) belong to a family of proteases that play a crucial role in tissue remodeling and repair by degrading extracellular matrix proteins to enable cell migration. MMP-3 (also known as stromelysin-1) is thought to play a role in the vascular remodeling that occurs during aneurysm formation and may also be involved in wound repair, progression of atherosclerosis, and tumor initiation. MMP-3 inhibitor VIII is a cell permeable sulfonamide-based hydroxamic acid that binds to the active site of MMP-3 ($K_i = 23$ nM) and prevents its activity. This compound has also been shown to inhibit mouse macrophage metalloelastase MME/MMP-12 with an IC_{50} value of 13 nM.

Caution: Product has not been fully validated for medical applications. For research use only.

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