PRODUCT INFORMATION

MMP-2/MMP-9 Inhibitor I
Item No. 20315

CAS Registry No.: 193807-58-8
Formal Name: N-[(1,1'-biphenyl)-4-ylsulfonyl]-D-phenylalanine
Synonym: Matrix Metalloproteinase-2/Matrix Metalloproteinase-9 Inhibitor I
MF: C_{21}H_{19}NO_{4}S
FW: 381.4
Purity: ≥99%
Supplied as: A solid
Storage: -20°C
Stability: ≥2 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

MMP-2/MMP-9 inhibitor I is supplied as a solid. A stock solution may be made by dissolving the MMP-2/MMP-9 inhibitor I in the solvent of choice. MMP-2/MMP-9 inhibitor I is soluble in DMSO to 25 mM.

Description

MMP-2/MMP-9 inhibitor I is a potent inhibitor of matrix metalloproteinase-2 (MMP-2) and MMP-9 (IC_{50}s = 310 and 240 nM, respectively).\(^1\) It acts by binding zinc at the active site of these MMPs. MMP-2/MMP-9 inhibitor I is active in vivo as well as in vitro and blocks MMP-2/MMP-9-dependent invasion, tumor growth, and metastasis in both cell culture and mouse tumor models.\(^1\) This compound has been used to elucidate the roles of MMP-2 and MMP-9 in diverse systems, including mammary epithelial cell transformation, neuronal dysfunction, lymphocyte recruitment, and progressive hereditary kidney disease.\(^2\)\(^-\)\(^5\)

References