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**Product Data Sheet**

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Product Name: MMP-9/MMP-13 Inhibitor I

Cat. No.: GC18612

**Chemical Properties**

Cas. No. 204140-01-2

Chemical Name 4-([1,1'-biphenyl]-4-ylcarbonyl)-N-hydroxy-1-[(4-methoxyphenyl)sulfonyl]-2-piperazinecarboxamide

SMILES O=C(N1CCN(S(C2=CC=C(OC)C=C2)(=O)=O)C(C(NO)=O)C1)C(C=C3)=CC=C3C4=CC=CC=C4Formula  $C_{25}H_{25}N_3O_6S$  M.Wt 495.6

Solubility DMF: 30 mg/ml, DMSO: 25 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**

MMP-9/MMP-13 inhibitor I is a cell-permeable inhibitor of matrix metalloproteinases (MMPs) that most potently inhibits MMP-9 and MMP-13 (IC<sub>50</sub>s = 0.9 nM for both). It less effectively inhibits MMP-1, MMP-3, and MMP-7 (IC<sub>50</sub>s = 43, 23, and 920 nM, respectively). MMP-9/MMP-13 inhibitor I has been used to elucidate the roles of MMPs in biological systems, including tumor cell invasion and pathogenesis of *P. falciparum*.

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

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