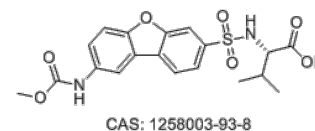


**Product Name** : MMP408  
**Cat. No.** : PC-20540  
**CAS No.** : 1258003-93-8  
**Molecular Formula** : C<sub>19</sub>H<sub>20</sub>N<sub>2</sub>O<sub>7</sub>S  
**Molecular Weight** : 420.44  
**Target** : Matrix Metalloproteinase (MMP)  
**Solubility** : 10 mM in DMSO



## Biological Activity

MMP408 (MMP 408) is a potent, selective matrix metalloprotease 12 (MMP-12) inhibitor with IC<sub>50</sub> of 2.0 nM (human MMP-12), 60-fold selectivity over MMP-13.

MMP408 has lower potency in rodent MMP-12 (80- and 160-fold less active for mouse and rat, respectively).

MMP408 displays a good selectivity profile (>500-fold) over other human MMPs (MMP-1, 3, 7, 9, 14, and TACE, Agg-1, Agg-2).

MMP408 (5 mg/kg, b.i.d. po) attenuates pulmonary inflammation in rhMMP-12 induced lung inflammation model.

## References

Li W, et al. J Med Chem. 2009 Apr 9;52(7):1799-802.

Zang N, et al. J Virol. 2015 Dec 16;90(5):2536-43.

Makino A, et al. iScience. 2021 Oct 2;24(10):103201.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

E-mail: tech@probechem.com