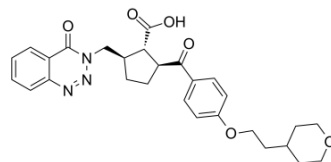


BAY-7598

| | |
|---------------------------|---|
| Cat. No.: | HY-120944 |
| CAS No.: | 1816257-74-5 |
| Molecular Formula: | C ₂₈ H ₃₁ N ₃ O ₆ |
| Molecular Weight: | 505.56 |
| Target: | MMP |
| Pathway: | Metabolic Enzyme/Protease |
| Storage: | Please store the product under the recommended conditions in the Certificate of Analysis. |



BIOLOGICAL ACTIVITY

| | | | | | | | | | |
|-------------------------------------|--|---------------|----------------------|---------|---------------------------------------|-----------------|---|---------|--|
| Description | BAY-7598 is a potent, orally bioavailable, and selective MMP12 inhibitor probe with IC ₅₀ s of 0.085, 0.67 and 1.1 nM for human MMP12, murine MMP12, and rat MMP12, respectively ^[1] . | | | | | | | | |
| IC₅₀ & Target | IC ₅₀ : 0.085 nM (human MMP12), 0.67 nM (murine MMP12), 1.1 nM (rat MMP12) ^[1] | | | | | | | | |
| In Vitro | <p>BAY-7598 inhibits human MMP2, MMP3, MMP7, MMP8, MMP9, MMP10, MMP13, MMP14, and MMP16 with IC₅₀s of 44, 360, 600, 15, 460, 12, 67, 250, and 940 nM, respectively^[1].</p> <p>BAY-7598 inhibits murine MMP2, MMP3, MMP7, MMP8, and MMP9 with IC₅₀s of 45, 270, 130, 54, and 210 nM, respectively^[1].</p> <p>BAY-7598 inhibits rat MMP2, MMP8, and MMP9 with IC₅₀s of 45, 67, and 1000 nM, respectively^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> | | | | | | | | |
| In Vivo | <p>BAY-7598 has moderate terminal elimination half-life (t_{1/2}=4.6 h and 4.1 h for mouse (0.3 mg/kg, iv), mouse (5.0 mg/kg, p.o.) , respectively)^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Animal Model:</td> <td>Mouse^[1]</td> </tr> <tr> <td>Dosage:</td> <td>0.3 mg/kg (i.v.) and 5.0 mg/kg (p.o.)</td> </tr> <tr> <td>Administration:</td> <td>Administered i.v. (0.3 mg/kg) and p.o. (5.0 mg/kg) (Pharmacokinetic Analysis)</td> </tr> <tr> <td>Result:</td> <td>T_{1/2}=4.6 h and 4.1 h for 0.3 mg/kg (i.v.) and 5.0 mg/kg (p.o.), respectively.</td> </tr> </table> | Animal Model: | Mouse ^[1] | Dosage: | 0.3 mg/kg (i.v.) and 5.0 mg/kg (p.o.) | Administration: | Administered i.v. (0.3 mg/kg) and p.o. (5.0 mg/kg) (Pharmacokinetic Analysis) | Result: | T _{1/2} =4.6 h and 4.1 h for 0.3 mg/kg (i.v.) and 5.0 mg/kg (p.o.), respectively. |
| Animal Model: | Mouse ^[1] | | | | | | | | |
| Dosage: | 0.3 mg/kg (i.v.) and 5.0 mg/kg (p.o.) | | | | | | | | |
| Administration: | Administered i.v. (0.3 mg/kg) and p.o. (5.0 mg/kg) (Pharmacokinetic Analysis) | | | | | | | | |
| Result: | T _{1/2} =4.6 h and 4.1 h for 0.3 mg/kg (i.v.) and 5.0 mg/kg (p.o.), respectively. | | | | | | | | |

REFERENCES

[1]. Chemical Probe BAY-7598 MMP12 Inhibitor.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA