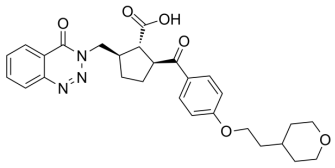
BAY-7598

Cat. No.:	HY-120944
CAS No.:	1816257-74-5
Molecular Formula:	$C_{28}H_{31}N_3O_6$
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].
IC_{50} & Target	IC50: 0.085 nM (human MMP12), 0.67 nM (murine MMP12), 1.1 nM (rat MMP12)[1]
In Vitro	BAY-7598 inhibits human MMP2, MMP3, MMP7, MMP8, MMP9, MMP10, MMP13, MMP14, and MMP16 with IC_{50}s of 44, 360, 600, 15, 460, 12, 67, 250, and 940 nM, respectively[1]. BAY-7598 inhibits murine MMP2, MMP3, MMP7, MMP8, and MMP9 with IC_{50}s of 45, 270, 130, 54, and 210 nM, respectively[1]. BAY-7598 inhibits rat MMP2, MMP8, and MMP9 with IC_{50}s of 45, 67, and 1000 nM, respectively[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	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]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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