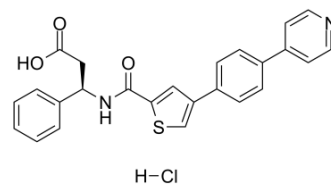


PF-00356231 hydrochloride

Cat. No.:	HY-114091		
CAS No.:	820223-77-6		
Molecular Formula:	C ₂₅ H ₂₁ ClN ₂ O ₃ S		
Molecular Weight:	464.96		
Target:	MMP		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



BIOLOGICAL ACTIVITY

Description	PF-00356231 hydrochloride is a specific, non-peptidic, non-zinc chelating ligand and inhibitor of matrix metalloproteinase MMP-12 (IC ₅₀ =1.4 μM). PF-00356231 hydrochloride binds to MMP-12 and forms PF-00356231/MMP-12 complex. PF-00356231 hydrochloride shows potency against MMP-13, MMP-8, MMP-9, MMP-3 with IC ₅₀ s of 0.00065, 1.7, 0.98, 0.39 μM, respectively ^[1] .			
IC₅₀ & Target	MMP-12 1.4 μM (IC ₅₀)	MMP13 0.65 nM (IC ₅₀)	MMP-3 0.39 μM (IC ₅₀)	MMP-8 1.7 μM (IC ₅₀)
	MMP-9 0.98 μM (IC ₅₀)			
In Vitro	PF-00356231 hydrochloride against MMP-12/13 can be affected significantly by the presence of acetohydroxamate (AH). PF-00356231 hydrochloride decreases the IC ₅₀ values of MMP-12 (0.014 μM) and MMP-13 (0.27 μM) in the presence AH ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			

REFERENCES

[1]. Morales R, et al. Crystal structures of novel non-peptidic, non-zinc chelating inhibitors bound to MMP-12. J Mol Biol. 2004 Aug 20;341(4):1063-76.

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

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