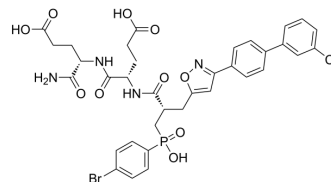


RXP470.1

Cat. No.:	HY-135517
CAS No.:	891198-31-5
Molecular Formula:	C ₃₅ H ₃₅ BrClN ₄ O ₁₀ P
Molecular Weight:	818
Target:	MMP
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	RXP470.1 (RXP-470) is a potent, selective MMP-12 inhibitor with a K _i of 0.2 nM against human MMP-12. RXP470.1 is 2 to 4 orders of magnitude less potent against other MMPs. RXP470.1 significantly reduces atherosclerotic plaque cross-sectional area in mouse. RXP470.1 results in less complex plaques with increased smooth muscle cell:macrophage ratio, less macrophage apoptosis, increased cap thickness, smaller necrotic cores, and decreased incidence of calcification ^[1] .
IC ₅₀ & Target	human MMP-12 0.2 nM (K _i)

REFERENCES

[1]. Jason L Johnson, et al. A selective matrix metalloproteinase-12 inhibitor retards atherosclerotic plaque development in apolipoprotein E-knockout mice. *Arterioscler Thromb Vasc Biol.* 2011 Mar;31(3):528-35.

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

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