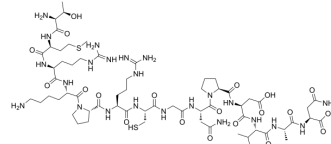


Peptide 74

Cat. No.:	HY-P2641
CAS No.:	132116-39-3
Molecular Formula:	C ₆₂ H ₁₀₇ N ₂₃ O ₂₀ S ₂
Molecular Weight:	1558.79
Sequence Shortening:	TMRKPRCGNPDVAN
Target:	MMP
Pathway:	Metabolic Enzyme/Protease
Storage:	Sealed storage, away from moisture
	Powder -80°C 2 years
	-20°C 1 year



* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 100 mg/mL (64.15 mM); Need ultrasonic					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
			1 mM	0.6415 mL	3.2076 mL	6.4152 mL
			5 mM	0.1283 mL	0.6415 mL	1.2830 mL
			10 mM	0.0642 mL	0.3208 mL	0.6415 mL
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: PBS Solubility: 100 mg/mL (64.15 mM); Clear solution; Need ultrasonic					

BIOLOGICAL ACTIVITY

Description	Peptide 74 is a synthetic peptide containing the prodomain sequence of matrix metalloproteinase (MMP). Peptide 74 inhibits the activated form of the 72-kDa type IV collagenase in vitro ^[1] .
In Vitro	Peptide 74 (30 μM) reduces both A2058 and HT 1080 tumor cell invasion by 60-80% ^[1] . Peptide 74 (30 μM) shows no cytotoxic action and does not inhibit chemotaxis or affect HT1080 and A2058 human tumor cells number ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. A Melchiori, et al. Inhibition of tumor cell invasion by a highly conserved peptide sequence from the matrix metalloproteinase enzyme prosegment. *Cancer Res.* 1992 Apr 15;52(8):2353-6.

[2]. P P Lee, et al. Functional role of matrix metalloproteinases (MMPs) in mammary epithelial cell development. *J Cell Physiol.* 2001 Jul;188(1):75-88.

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

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