

CCP peptide TFA

Cat. No.:	HY-P2171A
Molecular Formula:	C ₈₉ H ₁₄₆ N ₄₁ F ₃ O ₃₄ S ₂
Molecular Weight:	2455.49
Sequence:	His-Gln-Cys-His-Gln-Glu-Ser-Thr-{Cit}-Gly-Arg-Ser-Arg-Gly-Arg-Cys-Gly-Arg-Ser-Gly-Ser <small>HQCHQEST-{Cit}-GRSRGRCGRSGS(Disulfide bridge: Cys3-Cys16) (TFA salt)</small> r (Disulfide bridge: Cys3-Cys16)
Sequence Shortening:	HQCHQEST-{Cit}-GRSRGRCGRSGS(Disulfide bridge: Cys3-Cys16)
Target:	Others
Pathway:	Others
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 : 5 mg/mL (2.04 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		0.4073 mL	2.0363 mL	4.0725 mL
		5 mM		---	---	---
10 mM		---	---	---		
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 (40.73 mM); Clear solution; Need ultrasonic					

BIOLOGICAL ACTIVITY

Description	CCP peptide TFA is a synthetic cyclic citrullinated peptide (CCP) and used as the substrate for detecting anti-CCP antibodies serologically. CCP peptide TFA functions as a target for autoantibodies with a very high specificity for rheumatoid arthritis (RA) ^{[1][2]} .
In Vivo	CCP peptide is used as a new antigenic substrate in anti-CCP ELISA to detect anti-citrullinated protein antibodies (ACPAs). The anti-CCP ELISA is extremely specific (98%), with a reasonable sensitivity (68%). The anti-CCP ELISA is very useful for diagnostic and therapeutic strategies in rheumatoid arthritis (RA) ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Puszczewicz M, et al. Role of anti-citrullinated protein antibodies in diagnosis and prognosis of rheumatoid arthritis. Arch Med Sci. 2011 Apr;7(2):189-94.
- [2]. Söderlin MK, et al. Antibodies against cyclic citrullinated peptide (CCP) and levels of cartilage oligomeric matrix protein (COMP) in very early arthritis: relation to diagnosis and disease activity. Scand J Rheumatol. 2004;33(3):185-8.
- [3]. Schellekens GA, et al. The diagnostic properties of rheumatoid arthritis antibodies recognizing a cyclic citrullinated peptide. Arthritis Rheum. 2000 Jan;43(1):155-63.
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Caution: Product has not been fully validated for medical applications. For research use only.

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