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-Se (Disulfide bridge: Cys3-Cys16) (TFA sall) 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	Mass Solvent Concentration	1 mg	5 mg	10 mg	
		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 Solubility: 100 mg	one by one: PBS ;/mL (40.73 mM); Clear solution; Nee	d ultrasonic			

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.

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