

## CCP peptide acetate

### Chemical Properties

CAS No. :

Formula: C89H149N41O34S2

Molecular Weight: 2401.52

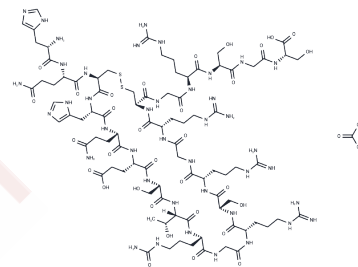
Storage:

Keep away from moisture, Store at low temperature,

Keep away from direct sunlight

Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



### Biological Description

Description	CCP peptide acetate is a synthetic cyclic citrullinated peptide (CCP). CCP peptide acetate can be used as the substrate for detecting anti-CCP antibodies serologically. CCP peptide acetate functions as a target for autoantibodies with a very high specificity for rheumatoid arthritis (RA).
Targets(IC50)	Others
In vitro	<p>Instructions</p> <ol style="list-style-type: none"> <li>1. Material preparation:             <ol style="list-style-type: none"> <li>1) CCP peptide acetate: Prepare the solution according to the experimental requirements, the concentration is usually 1-10 µg/mL.</li> <li>2) Serum sample: serum collected from patients.</li> <li>3) Determined enzyme-labeled substrate system for detecting antibody reactions.</li> </ol> </li> <li>2. Experimental steps:             <ol style="list-style-type: none"> <li>1) Add CCP peptide acetate solution to the pretreated 96-well plate.</li> <li>2) Add patient serum sample, usually diluted 1:100 or adjusted according to experimental conditions.</li> <li>3) Incubate the reaction plate for 1-2 hours.</li> <li>4) Use appropriate secondary antibody (such as anti-human IgG conjugated to enzyme) for reaction.</li> <li>5) Add enzyme-labeled substrate, observe color change, and measure absorbance at the corresponding wavelength using a microplate reader.</li> </ol> </li> </ol> <p>The above information is based on published literature. Experimental procedures should be appropriately modified to meet specific research demands.</p>

### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	0.4164 mL	2.082 mL	4.164 mL
5 mM	0.0833 mL	0.4164 mL	0.8328 mL
10 mM	0.0416 mL	0.2082 mL	0.4164 mL
50 mM	0.0083 mL	0.0416 mL	0.0833 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Ebel AV, et al. Association of Agricultural, Occupational, and Military Inhalants With Autoantibodies and Disease Features in US Veterans With Rheumatoid Arthritis. *Arthritis Rheumatol.* 2021 Mar;73(3):392-400.

Figueiredo CP, et al. Antimodified protein antibody response pattern influences the risk for disease relapse in patients with rheumatoid arthritis tapering disease modifying antirheumatic drugs. *Ann Rheum Dis.* 2017 Feb;76(2):399-407.

Ji L, et al. Early prediction of rheumatoid arthritis by magnetic resonance imaging in the absence of anti-cyclic citrullinated peptide antibodies and radiographic erosions in undifferentiated inflammatory arthritis patients: a prospective study. *Int J Rheum Dis.* 2015 Nov;18(8):859-65.

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