Data Sheet (Cat.No.TMPY-01581)

TargetMol

C-Reactive Protein Protein, Mouse, Recombinant (His)

General Information

Synonyms: C-reactive protein, pentraxin-related;AI255847

Protein Construction: His20-Ser225

Species: Mouse

Expression Host: HEK293 Cells

Accession: P14847

Molecular Weight: 24.2 kDa (Predicted); 26-28 kDa (Due to glycosylation)

QC Testing

Biological Activity: Activity testing is not tested. It is theoretically active, but we cannot guarantee it.

Purity: > 95% as determined by Tris-Bis PAGE; > 90% as determined by HPLC

Endotoxin: < 1.0 EU/μg of the protein as determined by the LAL method.

Formulation: Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

C-reactive protein (CRP) is a polypeptide molecule belonging to the family of pentraxins. CRP is synthesized primarily by the liver in response to certain pro-inflammatory cytokines. It plays an important role in innate immunity, opsonization by its properties, complement activation and immunoglobulins receptor binding. CRP is a protein of the acute systemic inflammation and is, therefore, a prime marker of inflammation.The CRP is quantified by immunonephelometry or immunoturbidimetry.

Reference

Pepys MB. et al., 2003, J Clin Invest. 111 (12): 1805-12.
Thompson D. et al., 1999, Structure. 7(2): 169-77.

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