

## Complement C4-B Protein, Mouse, Recombinant (His)

### General Information

Synonyms: C4;C4b;Complement C4-B

Protein Construction: 1448-1738 aa

Species: Mouse

Expression Host: E. coli

Accession: P01029

Molecular Weight: 39.0 kDa (predicted)

AA Sequence: EAPKVVEEQESRVQYTVCIWRNGKLGSLGMAIADITLLSGFHALRADLEKLTSLSDRYVSHFETDGPHVLLYFD  
SVPTTREC VGFGASQEVVVLVQPSSAVLYDYSPDHKCSVFYAAPTQSLLATLCSGDVCQCAEGKCPRLLR  
SLERRVEDKDG YRMRFACYPRVEYGFTVKVLREDGRAAFRLFESKITQVLHFRKDTMASIGQTRNFLSRASC  
RLRLEPNKEYLIMGMDGETSDNKGDPQYLLDSNTWIEEMPSEQMCKSTRHRAACFQLKDFLMEFSSRGCQV

### QC Testing

Biological Activity: Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.

Purity: > 90% as determined by SDS-PAGE.

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

Formulation: If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in sterile deionized 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:

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

Non-enzymatic component of C3 and C5 convertases and thus essential for the propagation of the classical

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complement pathway. Covalently binds to immunoglobulins and immune complexes and enhances the solubilization of immune aggregates and the clearance of IC through CR1 on erythrocytes. Catalyzes the transacylation of the thioester carbonyl group to form ester bonds with carbohydrate antigens.

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