

## Complement C4-B Protein, Human, Recombinant (His &amp; SUMO)

## General Information

Synonyms:	CO4;Basic complement C4;C3 and PZP-like alpha-2-macroglobulin domain-containing protein 3;Complement C4-B;C4B;CPAMD3;C4B_2
Protein Construction:	1454-1744 aa
Species:	Human
Expression Host:	E. coli
Accession:	POC0L5
Molecular Weight:	49.1 kDa (predicted)
AA Sequence:	EAPKVVVEEQESRVHYTVCIWRNGKVGLSGMAIADVTLLSGFHALRADLEKLTSLSDRYVSHFETEGPHVLLLYFD SVPTSRECVGFQFEAVQEVVGLVQPASATLYDYYPERRCSVFGAPSKSRLLATLCSAEVCQCAEGKCPQRORR ALERGLQDEDGYRMKFACYYPVVEYGFQVKVLRSDRAAFRLFETKITQVLHFTKDVKAAANQMRNFLVRAS CRLRLEPGKEYLIMGLDGATYDLEGHPQYLLDSNSWIEEMPSERLCRSTRQRAACAQLNDFLQEYGTQGCQV

## 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:	Tris-based buffer, 50% glycerol

## Preparation and Storage

## Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

## Stability &amp; 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 the C3 and C5 convertases and thus essential for the propagation of the classical 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. C4A isotype is

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responsible for effective binding to form amide bonds with immune aggregates or protein antigens, while C4B isotype catalyzes the transacylation of the thioester carbonyl group to form ester bonds with carbohydrate antigens.; Derived from proteolytic degradation of complement C4, C4a anaphylatoxin is a mediator of local inflammatory process. It induces the contraction of smooth muscle, increases vascular permeability and causes histamine release from mast cells and basophilic leukocytes.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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