

Recombinant Human Complement C4-B(C4B)partial

Catalog No: #AP70971

Package Size: #AP70971-1 20ug #AP70971-2 100ug #AP70971-3 1mg

Description

Product Name	Recombinant Human Complement C4-B(C4B)partial
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1454-1744aaSequence Info:Partial
Other Names	Basic complement C4C3 and PZP-like alpha-2-macroglobulin domain-containing protein 3
Accession No.	P0C0L5
Calculated MW	49.1 kDa
Tag Info	N-terminal 6xHis-SUMO-tagged
Target Sequence	EAPKVVEEQESRVHYTVCIWRNGKVGLSGMAIADVTLISGFHALRADLEKLTSLSDRYVSHFETEGPHVLLYF DSVPTSRECVGF EAVQEVVGLVQPASATLYDYYPERRCSVFY GAPSRSRLATLCSAEVCQCAEGKCPRQ RRALERGLQDEDGYRMKFACYYPVEYGFQVKVLREDSRAAFRLFETKITQVLHFTKDVKAAANQMRNFLVR ASCRLRLEPGKEYLIMGLDGATYDLEGHPQYLLDSNSWIEEMPSERLCRSTRQRAACAQLNDFLQEYGTQGC QV
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

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 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.

References

Identification of N-linked glycoproteins in human saliva by glycoprotein capture and mass spectrometry. Ramachandran P., Boontheung P., Xie Y., Sondej M., Wong D.T., Loo J.A.J. Proteome Res. 5:1493-1503(2006) Research Topic: Immunology

Note: This product is for in vitro research use only and is not intended for use in humans or animals.