Complement C4 (C4A) Active Protein

PRODUCT OVERVIEW

Product Name	Complement C4 (C4a), Active Protein
Full Product Name	Purified native Human Complement C4 protein
Product Gene Name	C4a active protein
Product Synonym Names	Complement C4 protein
Host	Human
Form/Format	0.2 um filtered, frozen solution in PBS, pH 7.4.
Purity/Purification	≥ 95% by SDS-PAGE
Concentration	2.3 mg/ml ($E^{0.1\%}_{280nm}$=0.92) (lot specific)
Preparation and Storage	Upon receipt store at -20°C. Avoid repeat freeze-thaws.
Molecular Weight	147,000
3D Structure	ModBase 3D Structure for P08649
Active Protein Note	Protein activity can be an ambiguous term. Please refer to the data sheet or inquire with Technical Support to determine the definition of activity for this product.
Source Note	Human Plasma
Biohazard	Negative or non-reactive at the donor level for anti-HIV 1 and 2, anti HCV, HBsAg and Syphilis by FDA approved methods. However, as no test method can offer complete assurance that infectious agents are absent, handle as possibly infectious.
Protein Type	Native
Dry Ice Shipment	Extra charge may be applied to your shipping cost as dry ice is required to ship this product.
Product Categories/Family for C4a active protein	Immunology
Related Product Information for C4a active protein	MBS5308189 is an active protein targeting C4a. Also known as Purified native Human Complement C4 protein. Host: Human.
Other Notes	Small volumes of C4a active protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for C4a. It may not necessarily be applicable to this product.

NCBI GI #	158186621
NCBI GeneID	24233
NCBI Accession #	NP_113692.2
UniProt Primary Accession #	P08649
UniProt Secondary Accession #	Q62895; Q8R403
UniProt Related Accession #	P08649

GenBank Nucleotide #	NM_031504.3
NCBI Official Full Name	complement C4
NCBI Official Synonym Full Names	complement component 4A (Rodgers blood group)
NCBI Official Symbol	C4a
NCBI Official Synonym Symbols	C4; C4b; C4-1
UniProt Protein Name	Complement C4
Protein Family	Complement C4
UniProt Gene Name	C4
UniProt Synonym Gene Names	C4a
NCBI Protein Information	complement C4
NCBI Summary for C4a	complement protein, part of the classical activation pathway; localizes to the class III region of the MHC [RGD, Feb 2006]
UniProt Comments for C4a	C4A: Derived from proteolytic degradation of complement C4, C4a anaphylatoxin is a mediator of local inflammatory processes. It induces the contraction of smooth muscle, increases vascular permeability and causes histamine release from mast cells and basophilic leukocytes Protein type: Inhibitor; Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 20p12 Cellular Component: extracellular region; extracellular space Biological Process: complement activation
Research Articles on C4a	**1.** Our study provides the first evidence that sustained selective EPAC activation leads to an increase in TRPC3 and C4 protein expression and induces a proarrhythmic SOCE-like activity in adult rat ventricular cardiomyocytes
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