CFD Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	CFD, Recombinant Protein
Full Product Name	Recombinant Mouse CFD
Product Gene Name	CFD recombinant protein
Product Synonym Names	ADIPSIN; ADN; C3 convertase activator; CFD; Complement factor D; complement factor D (adipsin); DF; PFD; Properdin fac
Host	HEK293 cells
Form/Format	Lyophilized from a 0.2 um filtered solution in 10 mM Hepes, 500 mM NaCl with 5% trehalose, pH7.4
Purity/Purification	Greater than 95% as determined by SDS-PAGE
Preparation and Storage	The lyophilized protein is stable at -20 degree C for up to 1 year, the protein solution can be stored at 2-8 degree C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing 0.1% BSA (make sure BSA will NOT interfere with your experiment) and store in working aliquots at -20 degree C to -80 degree C for 6 months. Avoid repeated freeze/thaw cycle.
Molecular Weight	27,986 Da
Sequence Positions	20-258
3D Structure	ModBase 3D Structure for P03953
Species	Mouse
Tag	C-terminal His
Reconstitution	Centrifuge the vial prior to opening, reconstitute in sterile distilled water or buffer of interest to concentration of 0.1-1mg/ml by gently pipetting 2-3 times, don't vortex
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for CFD recombinant protein	Western Blot (WB), ELISA (EIA)
Related Product Information for CFD recombinant protein	MBS7616945 is a recombinant protein targeting CFD. Also known as Recombinant Mouse CFD. Host: HEK293 cells.
Other Notes	Small volumes of CFD recombinant 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 CFD. It may not necessarily be applicable to this product.

NCBI GI #	632794820
NCBI GeneID	11537
NCBI Accession #	NP_001278844.1
UniProt Primary Accession #	P03953
UniProt Secondary Accession #	Q61280
UniProt Related Accession #	P03953

GenBank Nucleotide #	NM_001291915.1
NCBI Official Full Name	complement factor D isoform 2
NCBI Official Synonym Full Names	complement factor D (adipsin)
NCBI Official Symbol	Cfd
NCBI Official Synonym Symbols	DF; Adn
UniProt Protein Name	Complement factor D
UniProt Synonym Protein Names	28 kDa adipocyte protein; Adipsin; C3 convertase activator; Properdin factor D
Protein Family	Complement factor
UniProt Gene Name	Cfd
UniProt Synonym Gene Names	Adn; Df
UniProt Entry Name	CFAD_MOUSE
NCBI Protein Information	complement factor D
UniProt Comments for CFD	CFD: Factor D cleaves factor B when the latter is complexed with factor C3b, activating the C3bbb complex, which then becomes the C3 convertase of the alternate pathway. Its function is homologous to that of C1s in the classical pathway. Defects in CFD are the cause of complement factor D deficiency (CFDD). CFDD is an immunologic disorder characterized by increased susceptibility to bacterial infections, particularly Neisseria infections, due to a defect in the alternative complement pathway. Belongs to the peptidase S1 family. Protein type: Protease; Secreted, signal peptide; EC 3.4.21.46; Secreted Cellular Component: extracellular region; extracellular space Molecular Function: endopeptidase activity; hydrolase activity; peptidase activity; serine-type endopeptidase activity; serine-type peptidase activity Biological Process: complement activation, alternative pathway; immune system process; innate immune response; Notch signaling pathway; proteolysis
Research Articles on CFD	**1.** An essential role for Factor D in the ability of the liver to recover from acute toxic injury, is reported.
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