

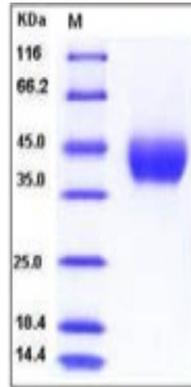
Cfd

Recombinant Mouse Adipsin / Complement Factor D (His Tag)

Catalog No.	CRM638A-His	Quantity:	20 µg
	CRM638B-His		50 µg
Alternate Names:	Complement factor D, 28 kDa adipocyte protein, Adipsin, C3 convertase activator, Properdin factor D		
Description:	Complement factor D is a secreted protein which belongs to the peptidase S1 family and contains one peptidase S1 domain. CFD is a component of the alternative complement pathway best known for its role in humoral suppression of infectious agents with a high level of expression in fat, suggesting a role for adipose tissue in immune system biology. This protein is also a serine protease that is secreted by adipocytes into the bloodstream. CFD 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. CFD stimulates glucose transport for triglyceride accumulation in fats cells and inhibits lipolysis. Defects in CFD are the cause of complement factor D deficiency which predisposes to invasive meningococcal disease.		
UniProt ID:	P03953-2		
Protein Construction:	A DNA sequence encoding the full length of mouse CFD isoform 2 (Met 1-Ser 258) was expressed, with a polyhistidine tag at the C-terminus.		
Source:	HEK293 Cells		
Formulation:	Lyophilized from sterile PBS, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.		
Molecular Weight:	The rmCFD consists of 249 aa with a predicted MW of 27.4 kDa and migrates at ~40-45 kDa in SDS-PAGE under reducing conditions, due to glycosylation.		
Purity:	> 98 % as determined by SDS-PAGE.		
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method		
Biological Activity:	Testing in progress		
Predicted N-terminal:	Gln 20		
Reconstitution:	Centrifuge vial prior to opening. Add sterile distilled water to a concentration of 0.1 mg/mL and gently pipette the solution up and down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution.		
Storage & Stability:	Stable for up to 1 year from date of receipt at -20°C to -80°C After reconstitution, store working aliquots at -20°C to -80°C. Avoid repeated freeze-thaw cycles.		



SDS-PAGE



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