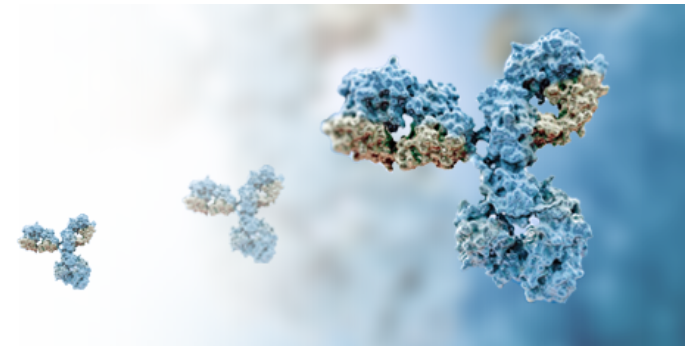

Recombinant Human Complement Factor H Protein-6His tag

Cat. No.: CTP-111
This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	This product is a 42.5 kDa recombinant human Complement Factor H protein with a C-terminal 6-His tag expressed in the mouse myeloma cell line. It is available for Bioactivity Assays.

SPECIFICATIONS

Expressed Host	Mouse myeloma cell line, NS0
Molecule Mass	42.5 kDa
Endotoxin	<1.0EU per 1μg (determined by the LAL method)
Purity	>95% by SDS-PAGE under reducing conditions and visualized by silver stain
Specie Reactivity	Human
Target	Factor H
Type	Recombinant Protein
Formulation	PBS
Sequence	S IPLCVEKIPC SQPPQIEHGT INSSRSSQES YAHGTKLSYT CEGGFRISEE NETTCYMGKW SSPPQCEGLP CKSPPEISHG VVAHMSDSYQ YGEEVTYKCF EGFGIDGPAI AKCLGEKWSH PPSCIKTDCL SLPSFENAIP MGEKKDVYKA GEQVTYTCAT YYKMDGASNV TCINSRWTGR PTCRDTSCVN PPTVQNAYIV SRQMSKYPSG ERVRYQCRSP YEMFGDEEVM CLNGNWTEPP QCKDSTGKCG PPPPIDNGDI TSFPLSVYAP ASSVEYQCQN LYQLEGNKRI TCRNGQWSEP PKCLHPCVIS REIMENYNIA LRWTAKQKLY SRTGESVEFV CKRGYRLSSR SHTLRTTCWD GKLEYPTCAK R
Applications	Bioactivity Assays
Product Form	Lyophilized
Storage	Store at 2 to 8°C after reconstitution for short term (1-2 weeks). For long term storage, aliquot and store at -20 or -80°C. Avoid repeated freezing and thawing cycles.

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PROTEIN INFORMATION

Introduction	Complement factor H plays an essential role in maintaining a well-balanced immune response by modulating complement activation. Acts as a soluble inhibitor of complement, where its binding to self markers such as glycan structures prevents complement activation and amplification on cell surfaces. Accelerates the decay of the complement alternative pathway (AP) C3 convertase C3bBb, thus preventing local formation of more C3b, the central player of the complement amplification loop. As a cofactor of the serine protease factor I, CFH also regulates proteolytic degradation of already-deposited C3b. In addition, mediates several cellular responses through interaction with specific receptors. For example, interacts with CR3/ITGAM receptor and thereby mediates the adhesion of human neutrophils to different pathogens. In turn, these pathogens are phagocytosed and destroyed.
Alternative Names	adrenomedullin binding protein; age-related maculopathy susceptibility 1; AHUS1; AMBP1; ARMD4; ARMS1; beta-1H; beta-1-H-globulin; beta-1-H-globulin; CFH; CFHL3; Complement Factor H; factor H; factor H-like 1; FH; FHL1; H factor 1 (complement); H factor 1; H factor 2 (complement); HF; HF1; HF1ARMS1; HF2; HUS
Gene ID	3075
UniProt ID	P08603

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