

Datasheet for ABIN7519899

C1R Protein (His tag)



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Overview

Quantity:	50 µg
Target:	C1R
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This C1R protein is labelled with His tag.

Product Details

Purpose:	Active Recombinant Human Complement C1r subcomponent Protein
Sequence:	<p>MWLLYLLVPA LFCRAGGSIP IPQKLFGEVT SPLFPKPYPN NFETTTVITV PTGYRVKLVF</p> <p>QQFDLEPSEG CFYDYVKISA DKKSLGRFCG QLGSPNGNPP GKKEFMSQGN KMLLTFTHTDF</p> <p>SNEENGTIMF YKGFLAYYQA VDLDECASRS KLGEEDPQPQ CQHLCHNYVG GYFCSCRPGY</p> <p>ELQEDRHSCQ AECSSSELYTE ASGYISSLEY PRSYPPDLRC NYSIRVERGL TLHLKFLEPF</p> <p>DIDDHQQVHC PYDQLQIYAN GKNIGFCGK QRPPDLDTSS NAVDLLFFTD ESGDSRGWKL</p> <p>RYTTEIHKCP QPKTLDEFTI IQNLQPQYQF RDYFIATCKQ GYQLIEGNQV LHSFTAVCQD</p> <p>DGTWHRAMPR CKIKDCGQPR NLPNGDFRYT TTMGVNTYKA RIQYYCHEPY YKMQTRAGSR</p> <p>ESEQGVYTCT AQGIWKNEQK GEKIPRCLPV CGKPVNPVEQ RQRIIGGQKA KMGNFPWQVF</p> <p>TNIHGRGGGA LLGDRWILTA AHTLYPKEHE AQSNASLDVF LGHTNVEELM KLGNIHPIRR</p> <p>SVHPDYRQDE SYNFECDIAL LELENSVTLG PNLLPICLPD NDTFYDLGLM GYVSGFGVME</p> <p>EKIAHDLRFV RLPVANPQAC ENWLRGKNRM DVFSQNMFCA GHPSLKQDAC QGDSGGVFAV</p> <p>RDPNTDRWVA TGIVSWGIGC SRGYGFYTKV LNYVDWIKKE MEEED</p>

Product Details

Specificity:	Met1-Asp705
Purity:	> 95 % by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	< 0.1 EU/µg of the protein by LAL method.
Biological Activity Comment:	Measured by its ability to cleave a colorimetric peptide substrate, N-carbobenzyloxy-Gly-Arg-ThioBenzyl ester (Z-GR-SBzl), in the presence of 5,5'Dithio-bis (2-nitrobenzoic acid) (DTNB). The specific activity is >2828 pmol/min/µg, as measured under the described conditions.

Target Details

Target:	C1R
Alternative Name:	Complement C1r subcomponent (C1R Products)
Background:	<p>Description: The classical complement pathway plays a major role in innate immunity against infection. This pathway is triggered by C1, a multimolecular complex composed of the recognition protein C1q and two serine proteases, C1r and C1s. Following the C1q recognition, C1r is autoactivated, and in turn activates C1s, which cleaves C4 and C2, the C1 substrates. C1r acts by transforming the activation signal into an enzymic activity. C1r is a single-chain glycoprotein which can be cleaved into an A chain and a B chain upon activation. This protien recognizes full-length C1r chain and the cleaved B chain.</p> <p>Name: C1R,EDSPD1</p>
Gene ID:	715
UniProt:	P00736
Pathways:	Complement System

Application Details

Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid votex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 %

Handling

	Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.
Buffer:	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4
Storage:	-20 °C,-80 °C
Storage Comment:	Store the lyophilized protein at -20°C to -80 °C for long term. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week.