

Product Datasheet

Recombinant Human Complement C5 (Active) (orb3155656)

Catalog Number	orb3155656
Category	Proteins
Description	Recombinant Human Complement C5 (Active)
Tag	C-terminal 10xHis-tagged
Form/Appearance	Lyophilized powder
Buffer/Preservatives	Lyophilized from a 0.2 µm sterile filtered PBS, 6% Trehalose, pH 7.4
Purity	Greater than 90% as determined by SDS-PAGE.

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Protein Sequence

QEQTYVISAPKIFRVGASENIVIQVYGYTEAFDATISIKSYDPKKFSYSSGHVHLSSSENKFQNS
 AILTIQPKQLPGGQNPVSYVYLEVVSKHFSKSKRMPITYDNGFLFIHTDKPVYTPDQSVKVRV
 YSLNDDLKPAKRETVLTFIDPEGSEVDMVEEIDHIGIISFPDFKIPSNPRYGMWTIKAKYKEDF
 STTGATAYFEVKEYVLPHFVSIEPEYNFIGYKNFKNFEITIKARYFYNNKVVTEADVYITFIGIREDL
 KDDQKEMMQTAMQNTMLINGIAQVTFDSETAVKELSYSSLEDLNNKYLYIAVTVIESTGGFS
 EEAEIPGIKYVLSPLYKLNLVATPLFLKPGIPYPIKVQVKDSLQVLGGVPVTLNAQTIDVNQET
 SLDLPSKSVTRVDDGVASFVLNLP SGVTVLEFNVKTDAPDLPEENQAREGYRAIAYSSLSQS
 YLYIDWTDNHKALLVGEHLNIIIVTPKSPYIDKITHYNYLILSKGKIIHFGTREKFSDASYQSINIP
 VTQNMVPSSRLLVYYIVTGEQTAELVSDSVWLNIEEKCGNQLQVHLSPDADAYSPGQTVSL
 NMATGMDSWVALAAVDSAVYGVQRGAKKPLERVQFLEKSDLGCGAGGGLNNANVFHL
 AGLTFLTNANADDSQENDEPCKEILRPRRTLQKKIEEIAAKYKHSVVKCCYDGACVNNDET
 CEQRAARISLGPRIKAFTECCVVASQLRANISHKDMQLGRLHMKTLPLVSKPEIRSYFPES
 WLWEVHLVPRRKQLQFALPDSLTTWEIQGVGISNTGICVADTVKAKVFKDVFLEMNIPYSV
 VRGEQIQLKGTVYNYRTSGMQFCVKMSAVEGICTSESPVIDHQGTKSSSKCVRQKVEGSSSH
 LVTFTVLPLEIGLHNINFSLETWFGKEILVKTLRVVPEGVKRESYSGVTLDPRIYGTISRKEF
 PYRIPLDLVPKTEIKRILSVKGLLVGEILSAVLSQEGINILTHLPKGSAAELMSVVPVFYVFHYL
 ETGNHWNIFHSDPLIEKQKLKKLKEGMLSIMSYRNADYSYSVWKGGSASTWLTAFAALRVL
 GQVNKYVEQNQNSICNSLLWLVENYQLDNGSFKENSQYQPIKLQGTLPVEARENSLYLTAF
 TVIGIRKAFDICPLVKIDTALIKADNFLLNTLPAQSTFTLAISAYALSLGDKTHPQFRSIVSALK
 REALVKGNPPIYRFWKDNLQHKDSSVPNTGTARMVETTAYALLTSLNLKDINYVNPVIKWLS
 EEQRYGGGFYSTQDTINAIEGLTEYSLLVKQLRLSMDIDVSYKHKGALHNYKMTDKNFLGRP
 VEVLLNDDLIVSTGFGSGLATVHVTTVVHKTSTSEEVCSFYLKIDTQDIEASHYRGYGNNDY
 KRIVACASYKPSREESSGSSHAVMDISLPTGISANEEDLKALVEGVDQLFTDYQIKDGHVIL
 QLNSIPSSDFLCVRFRIELFEVGFLSPATFTVYEHYRDPKQCTMFYSTSNIKIQKVCEGAACK
 CVEADCGQMQEELDTISAETRKQTACKPEIAYAYKVSITSITVENVFVKYKATLLDIYKTGEA
 VAEKDSEITFIKKVTCTNAELVKGRQYLMGKEALQIKYNFSFRYIYPLDSLTIWIEWPRDTC
 SSCQAFLANLDEFAEDIFLNGC

Protein Length

Full Length of Mature Protein

UniProt ID

P01031

MW

188.0 kDa

Application notes

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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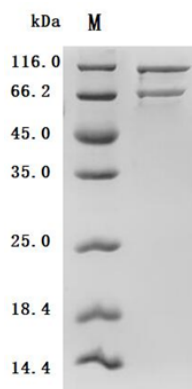
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Endotoxins	Less than 1.0 EU/ug as determined by LAL method.
Source	Mammalian cell
Biological Origin	Homo sapiens (Human)
Biological Activity	① Measured by its binding ability in a functional ELISA. Immobilized Human C5 at 2 µg/mL can bind Anti-C5 recombinant antibody. The EC50 is 1.867-2.192 ng/mL. ② C5 Recombinant Monoclonal Antibody captured on Protein A Chip can bind Human C5 with an affinity constant of 0.285 nM as detected by MetaSPR Assay.
Expression Region	19-1676aa
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Note	For research use only
Expiration Date	6 months from date of receipt.



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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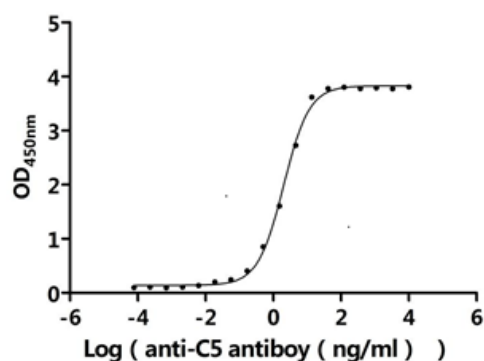
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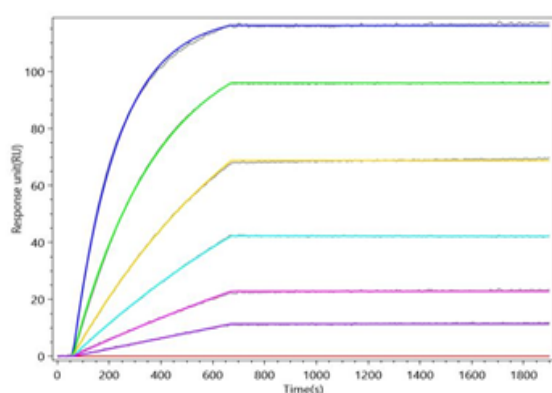
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Measured by its binding ability in a functional ELISA. Immobilized Human C5 at 2 µg/ml can bind C5 antibody (orb1907269). The EC50 is 1.867-2.192 ng/mL.



C5 antibody (orb1907269) captured on Protein A Chip can bind Human C5 with an affinity constant of 0.285 nM as detected by MetaSPR Assay (WeSPRTM 200).

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