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Datasheet for ABIN7447953

Complement C2 Protein (His tag)

Overview

Quantity:	50 µg
Target:	Complement C2
Origin:	Cynomolgus
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Complement C2 protein is labelled with His tag.

Product Details

Purpose:	Cynomolgus Complement C2 Protein, His Tag (active enzyme)
Sequence:	Ala 21 - Leu 752
Characteristics:	Cynomolgus Complement C2, His Tag is expressed from human 293 cells (HEK293). It contains AA Ala 21 - Leu 752 (Accession # G8F3W0-1).
Purity:	95,00 %
Endotoxin Level:	1.0 EU per µg
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 >100 pmol/min/µg (QC tested).

Target Details

Target:	Complement C2
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Target Details

Abstract: [Complement C2 Products](#)

Background: Synonyms: C2, Complement C2, Complement Component C2, Description: C2 is a major histocompatibility complex class-III protein. Component C2 which is part of the classical pathway of the complement system is cleaved by activated factor C1 into two fragments: C2b and C2a. C2a, a serine protease, then combines with complement factor C4b to generate the C3 or C5 convertase. The lectin (LP) and classical (CP) pathways are two of the three main activation cascades of the complement system. These pathways start with recognition of different pathogen- or danger-associated molecular patterns and include identical steps of proteolytic activation of complement component C4, formation of the C3 proconvertase C4b2, followed by cleavage of complement component C2 within C4b2 resulting in the C3 convertase C4b2a.

Molecular Weight: 83.0 kDa

NCBI Accession: [XP_005553508](#)

Application Details

Comment: This protein carries a polyhistidine tag at the C-terminus. The protein has a calculated MW of 83.0 kDa. The protein migrates as 90-100 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Restrictions: For Research Use only

Handling

Format: Lyophilized

Buffer: 20 mM Tris, 150 mM NaCl, pH 7.5

Storage: -20 °C

Storage Comment: -20°C