

Complement C3 Protein, Cynomolgus (HEK293, His)

Cat. No.:	HY-P75332
Synonyms:	Anaphylatoxin; C3; Complement Component C3a
Species:	Cynomolgus
Source:	HEK293
Accession:	XP_005587776 (T23-N1663)
Gene ID:	102131458
Molecular Weight:	Approximately 70,115,190 kDa

PROPERTIES

AA Sequence

TPMYSMITPN	VLRLESEETV	VLEAHDANGD	VPVTVTVHDF
PGKKLVLSSE	KTVLTPATSH	MGSVTIRIPA	NKEFKSEKGH
NKFVTVQATF	GAQVVEKVVV	VSLQSGYLF I	QTDKTIYTPG
STVLCRIFTV	NHKLLPVGRT	VVVNIENPDG	IPVKQDSLSS
QNQFGILPLS	WDIPELVNMG	QWKIRAYYEN	SPQQVFSTEF
EVKEYVLPSSF	EVIVEPTEKF	YYIYNQKGLE	VTITARFLYG
KKVEGTAFVI	FGIQDGEQRI	SLPESLKRIQ	I EDGSGDAVL
SRKVL LDGVQ	NRPEDLVGK	SLYVSVTVIL	HSGSDMVQAE
RSGIPIVTSP	YQIHFTKTPK	YFKPGMPFDL	MV FVTNPDGS
PAYRVPVAVQ	GEDAVQSLTQ	GDGVAKLSIN	THPSQKPLSI
TVRTKKRELS	EAEQATRME	AQPYSTVGNS	NNYLHLSVPR
AELRPGETLN	VNFLLRMDRT	QEAKIRYYTY	LIMNKGKLLK
VGRQVREPGQ	DLVVLPLSIT	TDFIPSFRLV	AYYTLIGANG
QREVVADSVW	VDVKDSCVGS	LVVKSGQSED	RQPLPGQQMT
LKIEGDHGAR	VGLVAVDKGV	FVLNKKNKLT	QSKIWDVVEK
ADIGCTPGSG	KDYAGVFSDA	GLTFASSSGQ	QTAQRAELQC
PQPAARRRRS	VQLAEKRMDK	VGQYPKELRK	CCEHGMREN P
MRFSCQRRTR	YITLDEACKK	AFLDCCNYIT	ELRRQHARAS
HLGLARSNLD	EDI IAEENIV	SRSEFPESWL	WKIEELKEAP
KNGISTKLMN	I FLKDSITTW	EILAVSLSDK	KGICVADPFE
VTVMQDFFID	LRLPYSVVRN	EQVEIRAVLY	NYRQNQELKV
RVELLHNPAF	CSLATAKRRH	QQTVTIPPKS	SLSVPYVIVP
LKTGQQEVEV	KAAVYHFFIS	DGVRKSLKVV	PEGIRMNKTV
AVRTLDPERL	GQEGVQREDV	PPADLSDQVP	DTESETRILL
QGTPVAQMTE	DAIDAERLKH	LIVTPSGCGE	QNMITMTPTV
I AVHYLDETE	QWEKFGPEKR	QGALELIKKG	YTQQLAFRQP
SSAFAAFLNR	APSTWLTAYV	VKVFS LAVNL	I AIDSQVLCG
AVKWLILEKQ	KPDGVVFQEDA	PVIHQEMTGG	FRNTNEKDMA
LTA FVLISLQ	EAKEICEEQV	NSLPGSITKA	GDFLEANMYN
LQRSYTVAIA	AYALAQMGRL	KGPLLNKFLT	TAKDKNRWEE
PGQQLYNVEA	TSYALLALLQ	LKDFDFVPPV	VRWLNEQRYY

GGGYGSTQAT	FMVFAQALAQY	QKDVPDHKEL	NLDVSLQLPS
RSSKIIHR IH	WESASLLRSE	ETKENEGFTV	TAEGKGQGT L
SVVTMYHAKA	KGQLTCNKFD	LKVTIKPAPE	TEKRPQDAKN
TMILEICTRY	RGDQDATMSI	LDISMMTGFV	PDTDDLKQLA
NGVDRYISKY	ELDKAFSDRN	TLIIYLDKVS	HSEDDCIAFK
VHQYFNVELI	QPGAVKVYAY	YNLAESC TRF	YHPEKEDGKL
NKLCRDELCR	CAEENC F IQK	LDDKVTLEER	LDKACEPGVD
YVYKTRLVKA	QLSND FDEYI	MAIEQIIKSG	SDEVQVGGQR
TFISPIKCRE	ALKLEEKGHY	LMWGLSSDFW	GEKPNLSYII
GKDTWVEHWP	EED ECQDEEN	QKQCQDLGTF	TENMVVFGCP

N

Biological Activity	Measured by its ability to enhance IL-6 secretion by THP 1 human acute monocytic leukemia cells. The ED ₅₀ for this effect is 0.5837 µg/mL, corresponding to a specific activity is 1713.209 U/mg.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

C3 assumes a pivotal role in the initiation of the complement system, and its processing by C3 convertase constitutes a central reaction in both classical and alternative complement pathways. Following activation, C3b has the capacity to covalently bind to cell surface carbohydrates or immune aggregates through its reactive thioester. Concurrently, the anaphylatoxin C3a, derived from the proteolytic degradation of complement C3, serves as a mediator in local inflammatory processes. In instances of chronic inflammation, C3a acts as a chemoattractant for neutrophils, inducing smooth muscle contraction, increasing vascular permeability, and triggering histamine release from mast cells and basophilic leukocytes.

Caution: Product has not been fully validated for medical applications. For research use only.

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