

Recombinant Human EMC1, His-tagged

Cat. No. EMC1-124H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ER Membrane Protein Complex Subunit 1/EMC1 is produced by our mammalian expression system in human cells. The target protein is expressed with sequence (Val22-Asp958) of Human EMC1 fused with a 6His tag at the C-terminus.
Species	Human
Source	HEK293
ProteinLength	22-958 a.a.
Description	ER Membrane Protein Complex Subunit 1 (EMC1) is a single-pass type I membrane protein of unknown function. The primary structure of EMC1 contains four conserved domains. This includes a signal peptide from position 1 to 22, a COG1520 WD40 like domain, a leucine zipper domain, a transmembrane domain. and a DUF1620 domain (domain of unknown function) thought to be the method of such interaction. EMC1 interacts with these types of proteins, specifically the centromeric protein CENPH, the BAX Inhibitor TMBI4, the ADP ribosylation factor ARF6, the kinase TNIK, and the transcriptional repressor T22D1.
AA Sequence	VYEDQVGKFDWRQQYVGKVKFASLEFSPGSKKLVVATEKNVIAALNSRTGEILWRH VDKGTAEGA VDAMLLHGQDVITVSNGGRIMRSWETNIGGLNWEITLDSGSFQALGL VGLQESVRYIAVLKKTTL ALHHLSSGHLKWVEHLPESDSIHYQMVSYSYSGSVVWAL GVVPFSHVNIKFNVEDGEIVQQVRVS TPWLQHLSGACGVVDEAVLVCPDPSSRSL

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QTLALETEWELRQIPLQSLDLEFGSGFQPRVLPTQP NPVDASRAQFFLHLSPSHYAL
 LQYHYGTLSELLKNFPQTALVSFATTGEKTVAAVMACRNEVQKSS SSEDGSMGSFS
 EKSSSKDSLACFNQTYTINLYLVETGRRLDTTITFSLEQSGTRPERLYIQVFL KKDD
 SVGYRALVQTEDHLLLFLQQLAGKVVLWSREESLAEVVCMVDLPLTGAQAELEG
 EFGKK ADGLLGMFLKRLSSQLILLQAWTSHLWKMFYDARKPRSQIKNEINIDTLARD
 EFNLQKMMVMVTA SGKLFGIESSSGTILWKQYLPNVKPDSSFKLMVQRTTAHFPH
 PQCTLLVKDKESGMSSLYVFNPF GKWSQVAPPVLKRPILQSLLLPVMQDYAKVLL
 LIDDEYKVTAFPATRNVLRQLHELAPSIFF YLVDAEQGRLCGYRLRKDLTTELSWELT
 IPPEVQRIVKVKGKRSSEHVHSQGRVMGDRSVLYKSL NPNLLAVVTESTDAHHERT
 FIGIFLIDGVTGRIIHSSVQKKAKGPVHIVHSENWVVYQYWNTKAR RNEFTVLELYEG
 TEQYNATAFSSSLDRPQLPQVLQQSYIFPSSISAMEATITERGITSRHL LIGL PSGAILS
 LPKALLDPRRPEIPTEQSREENLIPYSPDVQIHAERFINYNQTVSRMRGIYTAPSGLE
 STCLVVAYGLDIYQTRVYPSKQFDVLKDVDHHHHHH

Endotoxin

Less than 0.1 ng/μg (1 IEU/μg).

Purity

Greater than 95% as determined by reducing SDS-PAGE.

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