

Recombinant Human keratin 8, His-tagged

Cat. No. KRT8-561H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	KRT8, 1-483aa, Human His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-483 a.a.
Description	KRT8 is a member of the type II keratin family clustered on the long arm of chromosome 12. Type I and type II keratins heteropolymerize to form intermediate-sized filaments in the cytoplasm of epithelial cells. KRT8 typically dimerizes with keratin 18 to form an intermediate filament in simple single-layered epithelial cells. This protein plays a role in maintaining cellular structural integrity and also functions in signal transduction and cellular differentiation. Mutations in this gene cause cryptogenic cirrhosis. Recombinant human KRT8 protein, fused to His-tag at N-terminus, was expressed in E.coli.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol
Molecular Mass	56 kDa (506aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMsIRVTQ KSYKVSTSGP RAFSSRSYTS GPGSRISsss FSRVGSSNFR GGLGGGYGGA SGMGGITAVT VNQSLLSPLV LEVDPNIQAV RTQEKEQIKT LNNKFASFID KVRFLEQQNK MLETKWSLLQ QQKTARSNMD NMFESYINNl RRQLETlGQE KLEAEELGN MQGLVEDFKN

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KYEDEINKRT EMENEFVLIK KDVDEAYMNK VELESRLEGL TDEINFLRQL
 YEEEIRELQS QISDTSVVL MDNSRSLDMD SIIAEVKAQY EDIANRSRAE
 AESMYQIKYE ELQSLAGKHG DDLRRTKTEI SEMNRNISRL QAEIEGLKGQ
 RASLEAAIAD AEQRGELAIAK DANAKLSELE AALQRAKQDM ARQLREYQEL
 MNVKLALDIE IATYRKLLG EESRLESGMQ NMSIHTKTTS GYAGGLSSAY
 GGLTSPGLSY SLGSSFGSGA GSSSFRTSS SRAVVVKKIE TRDGKLVSES
 SDVLPK

Purity >90% by SDS - PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 1 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [KRT8 keratin 8 \[Homo sapiens \]](#)

Official Symbol KRT8

Synonyms KRT8; keratin 8; keratin, type II cytoskeletal 8; CARD2; CK8; CYK8; K2C8; K8; KO; cytokeratin 8; cytokeratin-8; type-II keratin Kb8; CK-8;

Gene ID [3856](#)

mRNA Refseq [NM_001256282](#)

Protein Refseq [NP_001243211](#)

MIM [148060](#)

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UniProt ID	P05787
Chromosome Location	12q13
Pathway	EGFR1 Signaling Pathway, organism-specific biosystem; Signaling mediated by p38-alpha and p38-beta, organism-specific biosystem;
Function	protein binding; structural molecule activity;

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