

## Recombinant Human keratin 8, His-tagged

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

### SPECIFICATION

<b>Product Overview</b>	KRT8, 1-483aa, Human His tag, E.coli
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-483 a.a.
<b>Description</b>	<p>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.</p>
<b>Form</b>	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol
<b>Molecular Mass</b>	56 kDa (506aa)
<b>AA Sequence</b>	<p>MGSSHHHHHH SGLVPRGSH MGSMSIRVTQ KSYKVSTSGP RAFSSRSYTS  GPGSRISSSS FSRVGSSNFR GGLGGGYGGA SGMGGITAVT VNQLLSPLV  LEVDPNIQAV RTQEKEQIKT LNNKFASFID KVRFLQKQNK MLETKWSLLQ  QQKTARSNMD NMFESYINNL RRQLETLGQE KLEAELGN MQGLVEDFKN</p>

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KYEDEINKRT EMENEFVLIK KDVDEAYMKN VELESRLEGL TDEINFLRQL  
 YEEEIRELQS QISDTSVVLS MDNSRSLDMD SIIAEVKAQY EDIANRSRAE  
 AESMYQIKYE ELQSLAGKHG DDLRRTKTEI SEMNRNISRL QAEIEGLKGG  
 RASLEAAIAD AEQRGELAIAK DANAKLSELE AALQRAKQDM ARQLREYQEL  
 MNVKLALDIE IATYRKLLG EESRLESGMQ NMSIHTKTTS GYAGGLSSAY  
 GGLTSPGLSY SLGSSFGSGA GSSSFSRTSS 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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<b>UniProt ID</b>	P05787
<b>Chromosome Location</b>	12q13
<b>Pathway</b>	EGFR1 Signaling Pathway, organism-specific biosystem; Signaling mediated by p38-alpha and p38-beta, organism-specific biosystem;
<b>Function</b>	protein binding; structural molecule activity;

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