

## Recombinant Human KRT8, His-tagged

**Cat. No.** KRT8-145H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human KRT8 protein, fused to His-tag at N-terminus, was expressed in E.coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-483aa
<b>Description</b>	This gene 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. The product of this gene 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. Alternatively spliced transcript variants have been found for this gene.
<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>	MGSSHHHHHH SSGLVPRGSH MGSMSIRVTQ KSYKVSTSGP RAFSSRSYTS GPGSRISSSS FSRVGSSNFR GGLGGGYGGA SGMGGITAVT VNQSLLSPLV LEVDPNIQAV RTQEKEQIKT LNNKFASFID KVRFLEQQNK MLETKWSLLQ

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QQKTARSNMD NMFESYINNL RRQLETLGQE KLKLEAELGN MQGLVEDFKN  
 KYEDEINKRT EMENEFVLIK KDVDEAYMNMK VELESRLEGL TDEINFLRQL  
 YEEEIRELQS QISDTSVVLS MDNSRSLDMD SIIAEVKAQY EDIANRSRAE  
 AESMYQIKYE ELQSLAGKHG DDLRRTKTEI SEMNRNISRL QAEIEGLKGG  
 RASLEAAIAD AEQRGELAIK DANAKLSELE AALQRAKQDM ARQLREYQEL  
 MNVKLALDIE IATYRKLLG EESRLESGMQ NMSIHTKTTS GYAGGLSSAY  
 GGLTSPGLSY SLGSSFSGA GSSSFRTSS SRAVVVKKIE TRDGKLVSES  
 SDVLPK

<b>Purity</b>	> 90% by SDS - PAGE
<b>Applications</b>	SDS-PAGE
<b>Storage</b>	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.
<b>Concentration</b>	1 mg/ml (determined by Bradford assay)

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">KRT8 keratin 8 [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	KRT8
<b>Synonyms</b>	KRT8; K8; KO; CK8; CK-8; CYK8; K2C8; CARD2; keratin 8; keratin, type II cytoskeletal 8; cytokeratin 8; cytokeratin-8; type-II keratin Kb8
<b>Gene ID</b>	<a href="#">3856</a>
<b>mRNA Refseq</b>	<a href="#">NM_002273</a>

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<b>Protein Refseq</b>	NP_002264
<b>MIM</b>	148060
<b>UniProt ID</b>	P05787
<b>Chromosome Location</b>	12q13
<b>Pathway</b>	EGFR1 Signaling Pathway; Signaling mediated by p38-alpha and p38-beta
<b>Function</b>	protein binding; protein complex binding; scaffold protein binding

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