

# Recombinant human Keratin 8/KRT8 protein

Catalog Number: ATGP2076

## PRODUCT INFORMATION

---

### Expression system

E.coli

### Domain

1-483aa

### UniProt No.

P05787

### NCBI Accession No.

NP\_002264

### Alternative Names

KO, Keratin type II cytoskeletal 8, Keratin 8, K8, K2C8, CYK8, CK8, CARD2

## PRODUCT SPECIFICATION

---

### Molecular Weight

56.1 kDa (506aa)

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol

### Purity

> 90% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE, Denatured

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

---

### 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.

# Recombinant human Keratin 8/KRT8 protein

Catalog Number: ATGP2076

## Amino acid Sequence

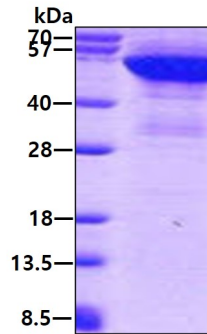
<MGSSHHHHHH SSGLVPRGSH MGS>MSIRVTQ KSYKVSTSGP RAFSSRSYTS GPGSRISSSS FSRVGSSNFR  
GGLGGGYGGA SGMGGITAVT VNQSLLSPLV LEVDPNIQAV RTQEKEQIKT LNNKFASFID KVRFLQQNK MLETKWSLLQ  
QQKTARSNMD NMFESYINNL RRQLETLGQE KKLKLEAELGN MQGLVEDFKN KYEDEINKRT EMENEFVLK KDVDEAYMNK  
VELESRLEGL TDEINFLRQL YEEEIRELQS QISDTSVVLS MDNSRSLDMD SIIAEVKAQY EDIANRSRAE AESMYQIKYE  
ELQSLAGKHG DDLRRTKTEI SEMNRNISRL QAEIEGLKGQ RASLEAAIAD AEQRGELAIK DANAKLSELE AALQRAKQDM  
ARQLREYQEL MNVKLALDIE IATYRKLLG EESRLESGMQ NMSIHTKTTS GYAGGLSSAY GGLTSPGLSY SLGSSFGSGA  
GSSSFSRTSS SRAVVVKKIE TRDGKLVSES SDVLPK

## General References

Babichenko II, Grigor'ian AS et al. Arkh Patol. 2011 Nov-Dec  
73(6):18-21.

## DATA

### SDS-PAGE



3 $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.