

AR50900PU-S

Human Cytokeratin 8 (1-483, His-tag) - Purified

Alternate names:

CK8, CYK8, Cytokeratin endo A, Cytokeratin-8, K8, KRT8, Keratin, Keratin-8, type II cytoskeletal 8

Quantity:

0.1 mg

Concentration:

1 mg/ml (determined by Bradford assay)

Background:

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.

Uniprot ID:

[P05787](#)

NCBI:

[NP_002264](#)

GenelD:

[3856](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >90% by SDS - PAGE

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol

Description:

Recombinant human KRT8 protein, fused to His-tag at N-terminus, was expressed in E.coli.

AA Sequence:

MGSSHHHHH SGLVPRGSH MGSMISRVTV KSYKVSTSGP RAFSSRSYTS GPGSRISSSS
FSRVGSSNFR GGLGGGYGGA SGMGGITAVT VNQSLLSPLV LEVDPNIQAV RTQEKEQIKT
LNNKFASFID KVRFLQEQNK MLETKWSLLQ QQTARSNMD NMFESYNNL RRQLETLGQE
KLKLEAELGN MQGLVEDFKN KYEDEINKRT EMENEFVLK KDVDEAYMNK VELESRLGL
TDEINFLRQL YEEEIRELQS QISDTSVVLS MDNSRSLDMD SIIEVKAQY EDIANRSRAE
AESMYQIKYE ELQSLAGKHG DDLRRTKTEI SEMNRNISRL QAEIEGLKGQ RASLEAAIAD
AEQRGELAIA DANAKLSELE AALQRAQDM ARQLREYQEL MNVKLALDIE IATYRKLLG
EESRLESQM NMSIHTKTTS GYAGGLSSAY GGLTSPGLSY SLGSSFSGA GSSSFRTSS
SRAVVVKKIE TRDGKLVSES SDVLPK

Molecular weight: 56 kDa (506aa)

Storage:

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

General Readings:

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

Pictures:

