
Product Data Sheet

Product Name: KRT8 Human, His

Cat. No.: GP23781

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Keratin type II cytoskeletal 8; Cytokeratin-8; CK-8; Keratin-8; K8; KRT8; CYK8; KO; CK8; K2C8; CARD2.		
Amino Acid Sequence	<p>MGSSHHHHH SSGLVPRGSH MGSMSIRVTQ KSYKVSTSGP RAFSSRSYTS GPGSRISSSS FSRVGSSNFR GGLGGGYGGA SGMGGITAVT VNQSLLSPLV LEVDPNIQAV RTQEKEQIKT LNNKFASFID KVRFLEQQNK MLETKWSLLQ QQKTARSNMD NMFESYINNL RRQLETLGQE KLKLEAELGN MQGLVEDFKN KYEDEINKRT EMENEFVLIK KDVD EAYMNK VELESRLEGL TDEINFLRQL YEEEIRELQS QISDTSVVLS MDNSRSLDMD SIIAEVKAQY EDIANRSRAE AESMYQIKYE ELQSLAGKHG DDLRRTKTEI SEMNRNISRL QAEIEGLKGG RASLEAAIAD AEQRGELAIK DANAKLSELE AALQRAKQDM ARQLREYQEL MNVKLALDIE IATYRKLLEG EESRLESGMQ NMSIHTKTTS GYAGGLSSAY GGLTSPGLSY SLGSSFGSGA GSSSFSRTSS SRAVVVKKIE TRDGKLVSES SDVLPK.</p>		
Formulation	KRT8 protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.4M Urea and 10% glycerol.		

Introduction

Cytokeratin 8 (KRT8) belongs to 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. KRT8 has a role in retaining cellular structural integrity and also functions in signal transduction and cellular differentiation. KRT8 gene mutations cause cryptogenic cirrhosis.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store frozen at -20°C for longer

Caution: Product has not been fully validated for medical applications. For research use only.

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periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

KRT8 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 506 amino acids (1-483 a.a) and having a molecular mass of 56kDa. KRT8 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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