

KRT18 Protein, Human (HEK293, His)

Cat. No.:	HY-P71668
Synonyms:	Cell proliferation inducing gene 46 protein; Cell proliferation inducing protein 46 ; Keratin D ; keratin, type I cytoskeletal 18; Keratin-18; Krt18
Species:	Human
Source:	HEK293
Accession:	P05783 (S2-H430)
Gene ID:	3875
Molecular Weight:	Approximately 50.8 kDa

PROPERTIES

AA Sequence

S F T T R S T F S T	N Y R S L G S V Q A	P S Y G A R P V S S	A A S V Y A G A G G
S G S R I S V S R S	T S F R G G M G S G	G L A T G I A G G L	A G M G G I Q N E K
E T M Q S L N D R L	A S Y L D R V R S L	E T E N R R L E S K	I R E H L E K K G P
Q V R D W S H Y F K	I I E D L R A Q I F	A N T V D N A R I V	L Q I D N A R L A A
D D F R V K Y E T E	L A M R Q S V E N D	I H G L R K V I D D	T N I T R L Q L E T
E I E A L K E E L L	F M K K N H E E E V	K G L Q A Q I A S S	G L T V E V D A P K
S Q D L A K I M A D	I R A Q Y D E L A R	K N R E E L D K Y W	S Q Q I E E S T T V
V T T Q S A E V G A	A E T T L T E L R R	T V Q S L E I D L D	S M R N L K A S L E
N S L R E V E A R Y	A L Q M E Q L N G I	L L H L E S E L A Q	T R A E G Q R Q A Q
E Y E A L L N I K V	K L E A E I A T Y R	R L L E D G E D F N	L G D A L D S S N S
M Q T I Q K T T T R	R I V D G K V V S E	T N D T K V L R H	

Appearance Lyophilized powder.

Formulation Lyophilized from a 0.2 µm sterile filtered PBS, 6% Trehalose, pH 7.4.

Endotoxin Level <1 EU/µg, determined by LAL method.

Reconstitution It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH₂O.

Storage & Stability Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

Shipping Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

The KRT18 Protein plays diverse roles in cellular processes, including the uptake of thrombin-antithrombin complexes by hepatic cells and the reorganization of filaments when phosphorylated. It actively participates in the delivery of mutated

CFTR to the plasma membrane and collaborates with KRT8 in interleukin-6 (IL-6)-mediated barrier protection. As a heterotetramer of two type I and two type II keratins, KRT18 forms a complex with KRT8, and interacts with PLEC isoform 1C when in a heterodimer with KRT8. Additionally, KRT18 engages in interactions with the thrombin-antithrombin complex and exhibits connections with various proteins such as PNN, mutated CFTR, YWHAE, YWHAH, YWHAZ (when phosphorylated), DNAJB6, TCHP, TRADD, FAM83H, EPPK1, PKP1, and PKP2. The multifaceted interactions and functions of KRT18 highlight its involvement in fundamental cellular activities and its contribution to molecular pathways governing cell structure and signaling.

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

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