

Caspase-14 Active Protein | CASP14 active protein

Caspase-14 Protein, Human, Recombinant (His Tag)

CATALOG #
AAA257996

HOST
E Coli

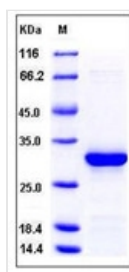
PRODUCT SYNONYMS

Caspase-14; Caspase-14 Protein; Human; Recombinant (His Tag); Human Caspase-14/CASP14 Protein (His Tag); ARI12 Protein; caspase 14; apoptosis-related cysteine peptidase; CASP14 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	>95% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile 20mM HEPES, 100mM NaCl, 1mM EDTA, 10% Sucrose, 0.1% chaps; pH7.5, 5% trehalose, 5% mannitol, 0.01% Tween80
Sequence	Ser2-Gln24 2
Species	Human
Predicted N Terminal	Met
Tag	N-His
Protein Construction	A DNA sequence encoding the human CASP14 (NP_036246.1)(Ser 2-Gln 242) was expressed, with a polyhistide tag at the N-terminus.
Reconstitution	It is recommended that the sterile water (200ul) be added to the vial to prepare a stock solution of 0.25mg/mL. Concentration is measured by UV-Vis.
Bio Activity	Measured by its ability to bind biotinylated Cynomolgus IL18 in a functional ELISA.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -70°C. Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for CASP14 active protein	Background: Caspase 14 is a member of the caspase family. Caspases are a kind of cysteine proteinase consisting of a prodomain plus large and small catalytic subunits, that play a central role in cell apoptosis. Caspase 14 possesses an unusually short prodomain and is highly expressed in embryonic tissues but absent from most of the adult tissues except for the skin, which suggests a role in ontogenesis and skin physiology. Unlike the other short prodomain caspases(caspase-3, caspase-6, and caspase-7), Caspase 14 was not processed by multiple death stimuli including activation of members of the tumor necrosis factor receptor family and expression of proapaptotic members of the bcl-2 family. Caspase 14 has been described to be processed and activated by anti-Fas agonist antibody or TNF-related apoptosis inducing ligand in vivo. The expression and processing of this caspase may take part in keratinocyte terminal differentiation, which is essential for the skin barrier.
Product Categories/Family for CASP14 active protein	EGFR Signaling Pathway
References	Hu SM, et al. (1998) Caspase-14 is a novel developmentally regulated protease. The journal of biological chemistry. 273: 29648-53.Marc Van De Craen, et al. (1998) Identification of a new caspase homologue: caspase-14. Cell death differ. 5(10): 838-46.

NCBI AND UNIPROT INFORMATION

NCBI GI #	6912286
NCBI GeneID	23581
NCBI Accession #	NP_036246.1
NCBI GenBank Nucleotide #	NM_012114.2
UniProt Accession #	P31944 ; O95823 ; Q3SYC9
Molecular Weight	The recombinant human CASP14 consisting of 248 amino acids and has a calculated molecular mass of 28.5 kDa. The apparent molecular mass of the protein is approximately 30 kDa in SDS-PAGE under reducing conditions.
NCBI Official Full Name	caspase-14
NCBI Official Synonym Full Names	caspase 14, apoptosis-related cysteine peptidase
NCBI Official Symbol	CASP14
NCBI Protein Information	caspase-14; CASP-14; apoptosis-related cysteine protease; caspase 14, apoptosis-related cysteine protease
UniProt Protein Name	Caspase-14
UniProt Gene Name	CASP14
UniProt Synonym Gene Names	CASP-14
UniProt Entry Name	CASPE_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.