

Active Recombinant Human CASP14 Protein, His tagged

Cat. No. CASP14-470H Lot. No. (See product label)

SPECIFICATION

Product Overview	Produced in E. coli. Human caspase-14 (2-242 aa) fused to a polyhistidine tag at the N-terminus.
Species	Human
Source	E.coli
ProteinLength	2-242 aa
Description	This gene encodes a member of the cysteine-aspartic acid protease (caspase) family. Sequential activation of caspases plays a central role in the execution-phase of cell apoptosis. Caspases exist as inactive proenzymes which undergo proteolytic processing at conserved aspartic residues to produce two subunits, large and small, that dimerize to form the active enzyme. This caspase has been shown to be processed and activated by caspase 8 and caspase 10 in vitro, and by anti-Fas agonist antibody or TNF-related apoptosis inducing ligand in vivo. The expression and processing of this caspase may be involved in keratinocyte terminal differentiation, which is important for the formation of the skin barrier.
Form	Lyophilized from sterile PBS, pH 7.4, 5 % trehalose, 5 % mannitol.
Applications	Useful tool to study the enzyme regulation and kinetics, cleave target substrates, screen for inhibitors.
Storage	Long Term Storage: -80 centigrade Centrifuge vial before opening. For prolonged

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

storage, dilute to working aliquots and store at -80 centigrade. Avoid freeze/thaw cycles.

Shipping

Blue Ice

Reconstitution

Reconstitute in sterile water.

GENE INFORMATION

Gene Name

CASP14 caspase 14, apoptosis-related cysteine peptidase [Homo sapiens (human)]

Official Symbol

CASP14

Synonyms

CASP14; caspase 14, apoptosis-related cysteine peptidase; caspase 14, apoptosis related cysteine protease; caspase-14; apoptosis related cysteine protease; MGC119078; MGC119079; MICE; CASP-14; apoptosis-related cysteine protease; caspase 14, apoptosis-related cysteine protease

Gene ID

23581

mRNA Refseq

NM_012114

Protein Refseq

NP_036246

MIM

605848

UniProt ID

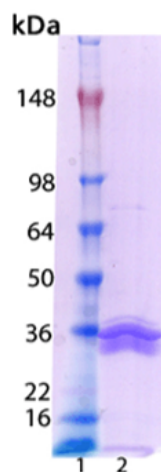
P31944

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

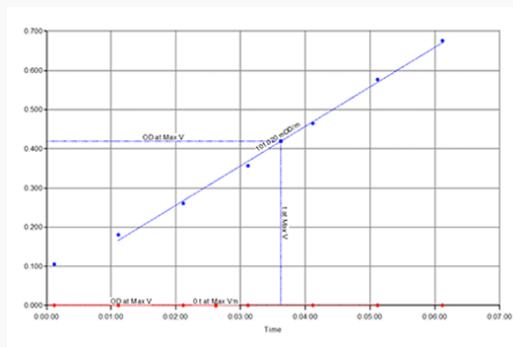
 45-1 Ramsey Road, Shirley, NY 11967, USA

Activity assay of Caspase-14



Enzyme incubated with Ac-WEHD-pNA, 200 μ M, in Caspase-14 assay buffer (1.1 M sodium citrate, 100 mM HEPES/NaOH, pH 7.0, 60 mM NaCl, 0.01 % CHAPS and 5 mM DTT) at 37 centigrade for 6 minutes, reading with 1 minute intervals. Blue: 2 μ L of enzyme; Red: Blank-no enzyme.

SDS-PAGE



Lane 1: MW Marker Lane 2: 2 μ g Caspase-14

Tel: 1-631-559-9269 1-516-512-3133

Email: info@creative-biomart.com Fax: 1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA