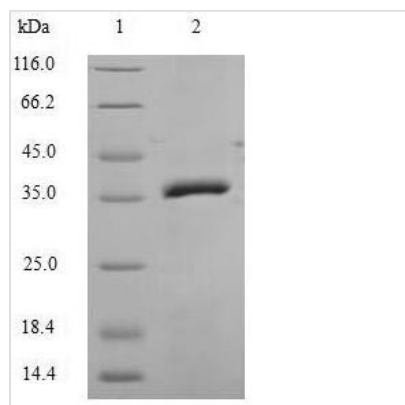




Recombinant Human Caspase-14 (CASP14)

Product Code	CSB-EP004546HU
Relevance	Non-apoptotic caspase involved in epidermal differentiation. Is the predominant caspase in epidermal stratum corneum . Ses to play a role in keratinocyte differentiation and is required for cornification. Regulates maturation of the epidermis by proteolytically processing filaggrin . In vitro has a preference for the substate [WY]-X-X-D motif and is active on the synthetic caspase substrate WEHD-ACF . Involved in processing of prosaposin in the epidermis . May be involved in retinal pigment epithelium cell barrier function . Involved in DNA degradation in differentiated keratinocytes probably by cleaving DFFA/ICAD leading to liberation of DFFB/CAD .
Abbreviation	Recombinant Human CASP14 protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P31944
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	KDSPQTIPTYTDALHVVSTVEGYIAYRHDQKGSCFIQTLVDVFTKRKGHILELLT EVTRRMAEAEELVQEGKARKTNPEIQSTLRKRLY
Research Area	Cell Biology
Source	E.coli
Target Names	CASP14
Expression Region	153-240aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal GST-tagged
Mol. Weight	37.2kDa
Protein Length	Full Length of Mature Protein
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.