

Recombinant Human CASPC Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP50111

Size: 10ug, 100ug

Protein Name: Inactive caspase-12 (CASP-12)

Synonym: CASP12, UNQ9415/PRO34398

UniProt ID: Q6UXS9

UniProt Link: www.uniprot.org/uniprotkb/Q6UXS9/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 341 AA

Molecular Weight: 39 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MADEKPSNGVLVHVMVKLLIKTFLDGIFDDLMENNVLNTDEIHLIGKCLKFVVSNAENLVDDITETAQIA
GKIFREHLWNSKKQLSSDISSDGEREANMPGLNIRNKEFNLYLHNRNGSELDLLGMRDLENLGYSVV
IKENLTAQEMETALRQFAAHPEHQSSDSTFLVFMSHSILNGICGTHKWDQEPDVLHDDTIFEIFNNRN
CQSLKDKPKVIIMQACRNGAGIVWFTTDSGKASADTHGRLLQGNICNDAVTKAHVEKDFIAFKSST
PHNVSWRHETNGSVFISQIIYYFREYSWSHLEEIFQKVQHSFETPNILTQLPTIERLSMTRYFYLFPG
N

3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

5. Product Description

This product is recombinant Inactive caspase-12 (CASP-12) produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

Protein Function: May function as a negative regulator of inflammatory responses and innate immunity. May reduce cytokine release in response to bacterial lipopolysaccharide during infection. Reduces activation of NF-kappa-B in response to TNF (PubMed:15129283). May lack protease activity (Probable).

Subcellular Localization: N/A

6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.
- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.