

Recombinant Human ITIH4 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP50579

Size: 10ug, 100ug

Protein Name: Inter-alpha-trypsin inhibitor heavy chain H4 (ITI heavy chain H4) (ITI-HC4) (Inter-alpha-inhibitor heavy chain 4) (Inter-alpha-trypsin inhibitor family heavy chain-related protein) (IHRP) (Plasma kallikrein sensitive glycoprotein 120) (Gp120) (PK-120) [Cleaved into: 70 kDa inter-alpha-trypsin inhibitor heavy chain H4; 35 kDa inter-alpha-trypsin inhibitor heavy chain H4]

Synonym: ITIH4, IHRP, ITIHL1, PK120, PRO1851

UniProt ID: Q14624

UniProt Link: www.uniprot.org/uniprotkb/Q14624/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 930 AA

Molecular Weight: 103 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MKPPRPVRTCSKVLVLLSLLAIHQTTTAEKNGIDIYSLTVDSRVSSRFAHTVVTSRVVNRANTVQEAT
FQMELPKKAFITNFSMIIDGMTYPGIIKEKAEQAQYSAAVAKGKSAGLVKATGRNMEQFQVSVSVAP
NAKITFELVYEELLKRRLGVYELLLKVRPQQQLVKHLQMDIHIFEPQGIFLETSTFMTNQLVDALTTW
QNKTKAHIRFKPTLSQQQKSPEQQETVLDGNLIIRYDVDRAISGGSIQIENGYFVHYFAPEGLTTMPK
NVVFVIDKSGSMSGRKIQQTREALIKILDDLSPRDQFNLI VFSTEATQWRPSLVPASAENVNKARSFA
AGIQALGGTNINDAMLMVQLLDSSNQEERLPEGSVSLIILLTDGDPTVGETNPRSIQNNVREAVSGR
YSLFCLGFGFDVSYAFLEKLALDNGGLARRIHEDSDSALQLQDFYQEVANPLLTAVTFEYPSNAVEE
VTQNNFRLLFKGSEM VVAGKLQDRGPDVLTATVSGKLPTQNITFQTESSVAEQEAEFQSPKYIFHNF
MERLWAYLTIQQLLEQTVSASDADQQALRNQALNLSLAYSFVTPLTSMVVTKPDDQEQSQVAEKPM
EGESRNRNVHSGSTFFKYLLQGAKIPKPEASFSPRRGWNRRQAGAAGSRMNFRPGVLSSRQLGLPG
PPDVPDHAAYHPFRRLLAILPASAPPATSNPDPAVSRVMNMKIEETTMTTQTPAPIQAPSAILPLPGQS
VERLCVDPRHRQGPVNLLSDPEQGVETGQYEREKAGFSWIEVTFKNPLVWVHASPEHVVVTRNR
RSSAYKWKETLFSVMPGLKMTMDKTGLLLSDPDKVTIGLLFWDGRGEGRLRLRLDTRDFSSHVGG
TLGQFYQEV LWGSPAASDDGRRTL RVQGN DHSATRERRLDYQEGPPGVEISCWSVEL

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 Inter-alpha-trypsin inhibitor heavy chain H4 (ITI heavy chain H4) (ITI-HC4) (Inter-alpha-inhibitor heavy chain 4) (Inter-alpha-trypsin inhibitor family heavy chain-related protein) (IHRP) (Plasma kallikrein sensitive glycoprotein 120) (Gp120) (PK-120) [Cleaved into: 70 kDa inter-alpha-trypsin inhibitor heavy chain H4; 35 kDa inter-alpha-trypsin inhibitor heavy chain H4] 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: Type II acute-phase protein (APP) involved in inflammatory responses to trauma. May also play a role in liver development or regeneration.

Subcellular Localization: Secreted.

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.