

Recombinant Rat SPA3K Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP52241

Size: 10ug, 100ug

Protein Name: Serine protease inhibitor A3K (Serpina A3K) (CPI-21) (Contrapsin-like protease inhibitor 1) (GHR-P63) (Growth hormone-regulated proteinase inhibitor) (Kallikrein-binding protein) (KBP) (SPI-2.3) (Serine protease inhibitor 2) (SPI-2) (Thyroid hormone-regulated protein)

Synonym: Serpina3k, Spin2b

UniProt ID: P05545

UniProt Link: www.uniprot.org/uniprotkb/P05545/entry

Species Source: Rat

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 416 AA

Molecular Weight: 47 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MAFIAALGLLMAGICPAVLCDGILGRDTLPHEHQGKGRQLHSLTLASINTDFTLSLYKKLALRNPDKNV
VFSPLSISAALAILSLGAKDSTMEEILEVLKFNLTETEEIHHQGFHLLQRLSQPEDQAEINTGSALFID
KEQPILSEFQEKTRALYQAEAFVADFKQCNEAKKFINDYVSNQTQGKIAELFSELDERTSMVLVNYLL
FKGKWKVPFNPNDTFESEFYLDEKRSVKVPMMKIKDLTPYIRDEELSCSVLELKYTGNASALFILPD
QGKMQQVESSLQPETLKKWKDSLPRRIISELRMPKFSISTDYNLEEVLPELGIRKIFSQQADLSRITGT
KNLHVSQVVHKAVLDVDETGTGEGAAATAVTAALKSLPQTIPLLNFNRPFMLVITDNNNGQSVFFMGKV
TNPM

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 Serine protease inhibitor A3K (Serpins A3K) (CPI-21) (Contrapsin-like protease inhibitor 1) (GHR-P63) (Growth hormone-regulated proteinase inhibitor) (Kallikrein-binding protein) (KBP) (SPI-2.3) (Serine protease inhibitor 2) (SPI-2) (Thyroid hormone-regulated protein) 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: Binds to and inhibits kallikreins. Inhibits trypsin but not chymotrypsin or elastase.

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.