

Recombinant Human HAX1 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP50397

Size: 10ug, 100ug

Protein Name: HCLS1-associated protein X-1 (HS1-associating protein X-1) (HAX-1) (HS1-binding protein 1) (HSP1BP-1)

Synonym: HAX1, HS1BP1

UniProt ID: O00165

UniProt Link: www.uniprot.org/uniprotkb/O00165/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 279 AA

Molecular Weight: 32 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MSLFDLFRGFFGFPGPRSHRDPFFGGMTRDEDDDEEEEEEGGSWGRGNPRFHSPQHPPPEEFGFG
FSFSPGGGIRFHDNFGFDDLVRDFNSIFSMDGAWTLPSHPPELPGPESETPGERLREGQTLRDSML
KYPDSHQPRIFGGVLESDARSESPQPAPDWGSQRPFHRFDDVWPMDPHPRTRREDNDLDSQVSQE
GLGPVLQPQPKSYFKSISVTKITKPDGIVEERRTVVDSEGRTEETTTRHEADSSPRGDPESPRPPAL
DDAFSILDLFLGRWFRSR

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 HCLS1-associated protein X-1 (HS1-associating protein X-1) (HAX-1) (HS1-binding protein 1) (HSP1BP-1) 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: Recruits the Arp2/3 complex to the cell cortex and regulates reorganization of the cortical actin cytoskeleton via its interaction with KCNC3 and the Arp2/3 complex (PubMed:26997484). Slows down the rate of inactivation of KCNC3 channels (PubMed:26997484). Promotes GNA13-mediated cell migration. Involved in the clathrin-mediated endocytosis pathway. May be involved in internalization of ABC transporters such as ABCB11. May inhibit CASP9 and CASP3. Promotes cell survival. May regulate intracellular calcium pools.

Subcellular Localization: Mitochondrion matrix . Endoplasmic reticulum . Nucleus membrane . Cytoplasmic vesicle . Cytoplasm, cell cortex . Cell membrane ; Peripheral membrane protein ; Cytoplasmic side . Sarcoplasmic reticulum . Cytoplasm, P-body .; [Isoform 1]: Cytoplasm . Nucleus . Note=Predominantly cytoplasmic. Also detected in the nucleus when nuclear export is inhibited, and in response to cellular stress caused by arsenite (in vitro).; [Isoform 3]: Cytoplasm . Nucleus . Note=Predominantly cytoplasmic. Also detected in the nucleus when nuclear export is inhibited (in vitro).; [Isoform 4]: Cytoplasm . Nucleus . Note=Shuttles between nucleus and cytoplasm.; [Isoform 5]: Cytoplasm . Note=Predominantly cytoplasmic.

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.