

## HAUS1 Human

**Description:** HAUS1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 302 amino acids (1-278 a.a) and having a molecular mass of 34.4kDa. HAUS1 is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

**Catalog #:** PRPS-1084

For research use only.

**Synonyms:** HAUS  $\mu$ gmin-like complex subunit 1, Coiled-coil domain-containing protein 5, Enhancer of invasion-cluster, HEI-C, HAUS1, CCDC5, HEIC, HsT1461.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MGSHMEPQEE RETQVAAWLK  
KIFGDHPIQ YEVPNRTTEI LHHLSERNRV RDRDVYLVIE DLKQKASEYE SEAKYLQDLL  
MESVNFSPAN LSSTGSRYLN ALVDSVALE TKDTSASF PAVNDLTSDL FRTKSKSEEI  
KIELEKLEKN LTATLVLEKC LQEDVKKAEL HLSTERAKVD NRRQNMDFLK AKSEEFRTGI  
KAAEEQLSAR GM

**Purity:** Greater than 85.0% as determined by SDS-PAGE.

**Formulation:**

HAUS1 protein solution (0.25mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 50% glycerol, 0.2M NaCl and 2mM DTT.

**Stability:**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Introduction:**

HAUS  $\mu$ gmin-like complex subunit 1 (HAUS1) is 1 of 8 subunits of the 390kDa human  $\mu$ gmin complex/ HAUS complex. The  $\mu$ gmin complex is a microtubule-binding complex required in microtubule generation within the mitotic spindle and is imperative to mitotic spindle compilation. HAUS1 contributes to mitotic spindle assembly, maintenance of centrosome integrity and completion of cytokinesis as part of the HAUS  $\mu$ gmin-like complex. HAUS1 is broadly expressed, especially in the pancreas, kidney, skeletal muscle, liver and heart. However it is weakly expressed in the lung, brain and placenta. HAUS1-depleted cells hold functional cell cycle checkpoints, but the depletion reduces the G2/M cell cycle compartment and stimulates apoptosis. The HAUS1 protein level remains constant through the cell cycle.

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