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## Product Data Sheet

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Product Name: HAUS1 Human  
 Cat. No.: GP23616  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	HAUS augmin-like complex subunit 1; Coiled-coil domain-containing protein 5; Enhancer of invasion-cluster; HEI-C; HAUS1; CCDC5; HEIC; HsT1461.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSHEMPQEE RETQVAAWLK KIFGDHPIPQ YEVPNPTTEI LHLSERNRV RDRDVYLVIE DLKQKASEYE SEAKYLQDLL MESVNFSPAN LSSTGSRYLN ALVDSVALE TKDTSLASFI PAVNDLTSDL FRTKSKSEEI KIELEKLEKN LTATLVLEKC LQEDVKKAEHLHLSTERAKVD NRRQNMDFLK AKSEEFRRFGI KAAEEQLSAR GMDASLSHQSLVASEKLAR LKQQTIPK KLESYLDLMP NPSLAQVKIE EAKRELDLIE AELTRRVDMM EL.		
Formulation	HAUS1 protein solution (0.25mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 50% glycerol, 0.2M NaCl and 2mM DTT.		

### Introduction

HAUS augmin-like complex subunit 1 (HAUS1) is 1 of 8 subunits of the 390kDa human augmin complex/ HAUS complex. The augmin 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 augmin-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.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store frozen at -20°C for longer

**Caution: Product has not been fully validated for medical applications. For research use only.**

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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.

### Background

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.

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