

**Product Name:** HSP40

**Alternate Names:** DNAJ1, HDJ1, HSPF1

**Product Code:** TAP-124

**FOR RESEARCH USE ONLY (RUO)**

**Verified Applications / Usage**

Suitable for studies of molecular chaperone function, HSP70-mediated protein folding, protein refolding, and aggregation suppression mechanisms.

**Physical Characteristics**

**Species:** Human

**Predicted MW (kDa):** 41 kDa

**Source:** *E. coli* BL21

**Purity:** 90 %

**Tag:** N-His<sub>6</sub>-3C

**Formulation:** 40 mM HEPES, 100 mM NaCl, 10% Glycerol, 2 mM TCEP, 1 mM EDTA, pH 7.6

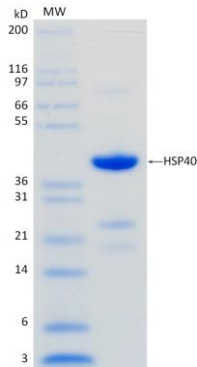
**Shipping:** The product is shipped with dry ice. Upon receipt, store it immediately at the temperature recommended below.

**Stability/Storage:** Use a manual defrost freezer and avoid repeated freeze-thaw cycles. Aliquot and store ≤ -70°C (stable for 24 months from date of receipt).

## Quality Assurance

### Purity & SDS-PAGE

**Protein ID:** DnaJ homolog subfamily B member 1



2 µg HSP40 run on 4-12% SDS-PAGE gel under reducing conditions, then visualized with Colloidal Coomassie Blue Stain.

### Activity Assay

Verified in Luciferase Refolding Assay.

## Background

### Description

HSP40 is a key co-chaperone that regulates protein quality control and ubiquitin-proteasome system activity through functional interactions with HSP70 and E3 ligases such as CHIP. It is widely used to study chaperone-mediated ubiquitylation, proteostasis, and targeted protein degradation pathways.

**Accession Number:** P25685

**Entrez Gene ID:** HSP40

## Protein Sequence

```
MGHHHHHGSLEVLFGQPGSMGKDYQTLGLARGASDEEIKRAYRRQALRYHPDKNKEPGAEE  
KFKEIAEAYDVLS DPRKREIFDRYGEEGLKSGSPSGSGGGANGTSFSYTFHGDPHAMFAEFF  
GGRNPFDTFFGQRNGEEGMDIDDPFSGFPMGMGGFTNVNFGRSRSAQEPARKKQDPPVTHDLR  
VSLEEIYSGCTKKMKISHKRLNPDGKSIRNEDKILTI EVKKGWKEGTKITFPKEGDQTSNNIP  
ADIVFVLKDKPHNIFKRDGSDVIYPARISLREALCGCTVNVPTLDGRTIPVVFKDVIRPGMRR  
KVPGEGLPLPKTPEKRGDLIEFEVIFPERIPQTSRTVLEQVLP I
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