

# Recombinant human DNAJC12 protein

Catalog Number: ATGP1636

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-198aa

### UniProt No.

Q9UKB3

### NCBI Accession No.

NP\_068572

### Alternative Names

Dnaj (Hsp40) homolog subfamily C member 12, Dnaj (Hsp40) homolog, subfamily C, member 12, JDP1, RP11-57G10.2

## PRODUCT SPECIFICATION

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### Molecular Weight

26kDa (222aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 2mM DTT, 100mM NaCl

### Purity

> 90% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

DNAJC12, also known as JDP1, is a member of the Dnaj/Hsp40 family. The members of the Dnaj/Hsp40 proteins are highly conserved through evolution, expressed in several tissues and act as co-chaperone regulating protein folding, transport, translational initiation and gene expression. DnajC12 may play a role in protein folding and export and is thought to be involved in estrogen control and the development of breast cancer. This protein is expressed at high levels in brain, heart, and testis, and at reduced levels in kidney and stomach. Recombinant

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human DNAJC12 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

## Amino acid Sequence

MGSSHHHHHH SGLVPRGSH MGSMDAILN YRSEDTEYY TLLGCDELSS VEQILAEFKV RALECHPDKH PENPKAVETF  
QKLQKAKEIL TNEESRARYD HWRRSQMSMP FQQWEALNDS VKTSMHWVVR GKKDLMLEES DKTHHTTKMEN  
EECNEQRERK KEELASTAEK TEQKEPKPLE KSVSPQNSDS SGFADVNGWH LRFRWSKDAP SELLRKFRNY EI

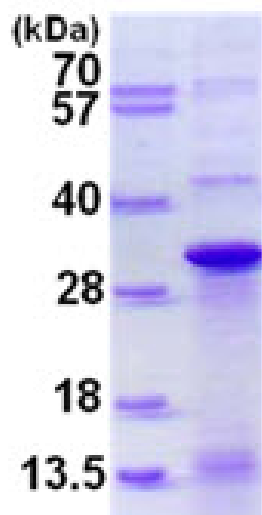
## General References

De Bessa SA, et al. (2006) J Mol Med. 17(2):363-7.

Mahlknecht, u., et al. (2009) Int. J. Mol. Med. 23: 245-252.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)