PRODUCT INFORMATION

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

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

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



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 SSGLVPRGSH MGSHMDAILN YRSEDTEDYY TLLGCDELSS VEQILAEFKV RALECHPDKH PENPKAVETF QKLQKAKEIL TNEESRARYD HWRRSQMSMP FQQWEALNDS VKTSMHWVVR GKKDLMLEES DKTHTTKMEN 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 (kDa) 70 57 40 28 18 13.5

15% SDS-PAGE (3ug)

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

