## **PRODUCT INFORMATION**

**Expression system** E.coli

**Domain** 1-204aa

**UniProt No.** Q7Z4H3

NCBI Accession No. NP\_057147

Alternative Names HD domain-containing protein 2, HD domain-containing protein 2, C6orf74, CGI-130, dJ16705.2, NS5ATP2

# **PRODUCT SPECIFICATION**

**Molecular Weight** 25.8 kDa (227aa) confirmed by MALDI-TOF

**Concentration** 1mg/ml (determined by Bradford assay)

**Formulation** Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol,

**Purity** > 95% 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

HDDC2 (HD domain-containing protein 2), also known as hepatitis C virus NS5A-transactivated protein 2, is an enzyme that contains one HD domain and belongs to the HDDC2 family. It is predicted to exhibit phosphohydrolase activity. This protein is suggested to participate in nucleic acid metabolism, signal transduction and possibly other functions in bacteria, archaea and eukaryotes. The HD domain consists of highly conserved residues, specifically histidines or aspartates. Porphyria cutanea tarda, Parkinson's disease and Stickler syndrome have all been associated with this protein. Recombinant human HDDC2 protein, fused to His-



tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

#### **Amino acid Sequence**

<MGSSHHHHHH SSGLVPRGSH MGS>MASVSSA TFSGHGARSL LQFLRLVGQL KRVPRTGWVY RNVQRPESVS DHMYRMAVMA MVIKDDRLNK DRCVRLALVH DMAECIVGDI APADNIPKEE KHRREEEAMK QITQLLPEDL RKELYELWEE YETQSSAEAK FVKQLDQCEM ILQASEYEDL EHKPGRLQDF YDSTAGKFNH PEIVQLVSEL EAERSTNIAA AASEPHS

#### **General References**

Brunner, H.G. et al. (1994) Hum. Mol. Genet. 3:1561-1564. Aravind, L. et al. (1998) Trends Biochem. Sci. 23:469-472.

## DATA

#### **SDS-PAGE**



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