

# Recombinant human DDIT4 protein

Catalog Number: ATGP0896

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-232aa

### UniProt No.

Q9NX09

### NCBI Accession No.

NP\_061931

### Alternative Names

DNA damage-inducible transcript 4 protein, Dig2, FLJ20500, REDD1, RP11-442H21.1, RTP801

## PRODUCT SPECIFICATION

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### Molecular Weight

27.5 kDa (252aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)

### Concentration

0.25mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 5mM DTT, 1mM EDTA, 30% glycerol

### 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

DDIT4, also known as Dig2 or REDD1, is thought to have function in the regulation of reactive oxygen species. In response to stress due to DNA damage and glucocorticoid treatment, DDIT4 is upregulated at the transcriptional level. DDIT4 negatively regulates the mammalian target of Rapamycin, a serine/threonine kinase often referred to as mTOR. It is crucial in the coupling of extra- and intracellular cues to mTOR regulation. Recombinant human DDIT4 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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## Amino acid Sequence

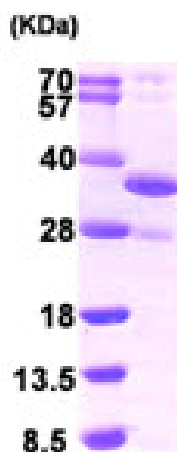
MGSSHHHHHH SSGLVPRGSH MPSSLWDRFSS SSTSSSPSSL PRTPTPDRPP RSAWGSATRE EGFDRSTSLE SSDCESLDSS  
NSGFGPEEDT AYLDGVSLPD FELLSDPEDE HLCANLMQLL QESLAQARLG SRRPARLLMP SQLVSQVGKE LLRLAYSEPC  
GLRGALLDVC VEQGKSCHSV GQLALDPSLV PTFQLTLVLR LDSRLWPQIQ GLFSSANSPF LPGFSQSLTL STGFRVIKKK  
LYSSEQLLIE EC

## General References

Yoshida T., et al. (2010) Nat Med. 16(7):767-73.  
Regazzetti C., et al. (2010) J Biol Chem. 285(8):5157-64.

## DATA

### SDS-PAGE



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

15% SDS-PAGE (3ug)