

Recombinant human DDIT4 protein

Catalog Number: ATGP0896

PRODUCT INFORMATION

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

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

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)