
Product Data Sheet

Product Name: DDIT4 Human

Cat. No.: GP23310

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	DNA-damage-inducible transcript 4; RTP801; REDD-1; Dig2; FLJ20500; Protein regulated in development and DNA damage response 1; HIF-1 responsive protein RTP801; RP11-442H21.1.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MP SLWDRFSS SSTSSSPSSL PRTPTPDRPP RSAWGSATRE EGFDRSTSLE SSDCESLDSS NSGFGPEEDT AYLDGVSLPD FELSDPEDE HLCANLMQLL QESLAQARLG SRRPARLLMP SQLVSQVGKE LLRLAYSEPC GLRGALLDVC VEQGKSCHSV GQLALDPSLV PTFQLTLVLR LDSRLWPKIQ GLFSSANSPF LPGFSQSLTL STGFRVIKKK LYSSEQLLIE EC		
Formulation	The DDIT4 protein solution (0.25mg/1ml) is formulated in 20 mM Tris-HCl buffer (pH8.0), 0.2M NaCl, 5mM DTT, 1mM EDTA and 30% glycerol.		

Introduction

DDIT4 has a role in the regulation of reactive oxygen species. DDIT4 is upregulated at the transcriptional level as a reaction to stress due to DNA damage and glucocorticoid treatment. DDIT4 negatively regulates the mammalian target of Rapamycin, a serine/threonine kinase frequently referred to as mTOR. DDIT4 is vital in the coupling of extra- and intracellular cues to mTOR regulation.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Please avoid freeze thaw cycles.

Background

DDIT4 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 252 amino acids (1-232.a.a) and having a molecular mass of 27.5kDa. DDIT4 is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Caution: Product has not been fully validated for medical applications. For research use only.

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