

Recombinant Human Cbp/P300-Interacting Transactivator, With Glu/Asp-Rich Carboxy-Terminal Domain, 2, His-tagged

Cat. No. CITED2-6919H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant CITED2 protein, fused to His-tagged, was expressed in E. coli and purified by using conventional chromatography techniques. MW: 29.5 kDa.
Species	Human
Source	E.coli
ProteinLength	1-270aa
Description	CITED2 is an important transcriptional cofactor involved in multiple organ development. It is a cAMP-responsive element-binding protein (CBP)/p300 interacting transcriptional modulator and a proposed negative regulator for hypoxia-inducible factor (HIF)-1a through its competitive binding with HIF-1a to CBP/p300. CITED2 is necessary for mouse fetal liver hematopoiesis and is required for the proper formation of the hyaloid vasculature and for lens morphogenesis.
Form	Liquid. In 20mM Tris-HCl buffer (pH8.0) containing 0.1M NaCl, 50% glycerol, 1mM DTT.
Molecular Mass	29.5 kDa (278 aa), confirmed by MALDI-TOF.
AA Sequence	MADHMMAMNH GRFPDGTNGL HHHPAHRMGM GQFPSPHHHQ QQQPQHAFNA LMGEHIHYGA GNMNATSGIR HAMGPGTVNG GHPPSALAPA ARFNNSQFMG PPVASQGGSL PASMQLQKLN NQYFNHHPYP HNHYMPDLHP AAGHQMN GTN

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

QHFRDCNPKH SGGSTPGGS GGSSTPGGSG SSSGGGAGSS NSGGGSGSGN
 MPASVAHVPA AMLPPNVIDT DFIDEVLMS LVIEMGLDRI KELPELWLGQ
 NEFDFMTDFV CKQQPSRVSC LEHHHHHH

Endotoxin	< 1.0 eu per 1 µg of protein (determined by lal)
Purity	>90% by SDS - PAGE
Applications	SDS-PAGE
Storage	Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
Concentration	0.25 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	CITED2 Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domain, 2 [Homo sapiens]
Official Symbol	CITED2
Synonyms	CITED2; Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domain, 2; cbp/p300-interacting transactivator 2; MRG1; MRG-1; MSG1-related gene 1; MSG-related protein 1; melanocyte-specific gene 1-related gene 1; ASD8; VSD2; P35SRJ;
Gene ID	10370
mRNA Refseq	NM_001168388

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Protein Refseq	NP_001161860
MIM	602937
UniProt ID	Q99967
Chromosome Location	6q23.3
Pathway	HIF-1-alpha transcription factor network, organism-specific biosystem; HIF-2-alpha transcription factor network, organism-specific biosystem;
Function	LBD domain binding; RNA polymerase II activating transcription factor binding; SMAD binding; chromatin binding; protein binding; sequence-specific DNA binding transcription factor activity; transcription coactivator activity; transcription corepressor activity; transcription corepressor activity;

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