

Recombinant Human CITED2, His-tagged

Cat. No. CITED2-1353H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CITED2 produced in <i>E. coli</i> is a single, non-glycosylated, polypeptide chain containing 278 amino acids (1-270 a.a.) and having a molecular mass of 29.5 kDa. The CITED2 is fused to 8 amino acids His Tag at C-terminus and purified by proprietary chromatographic techniques.
Species	Human
Source	E.coli
Protein Length	1-270 a.a.
Description	CITED2 is a significant transcriptional cofactor that takes part in multiple organ development. CITED2 is a cAMP-responsive element-binding protein (CBP)/p300 interacting transcriptional modulator and a negative regulator for HIF1A through its competitive binding with HIF1A to CBP/p300. CITED2 is essential for mouse fetal liver hematopoiesis and is necessary for the appropriate formation of the hyaloid vasculature and for lens morphogenesis. CITED2 is a coactivator of HNF4alpha and necessary for liver development. CITED2 is a coactivator of PPAR-alpha and both participate in signaling cascades of hypoxic response and angiogenesis.
Amino Acid Sequence	MADHMMAMNH GRFPDGTNGL HHHPAHRMGM GQFPSPHHHQ QQQPQHAFNA LMGEHIHYGA GNMNATSGIR HAMGPGTVNG GHPPSALAPA ARFNNSQFMG PPVASQGGSL PASMQLQKLN NQYFNHHYPY HNHYPDLHP AAGHQMNMTN QHFRDCNPKH SGGSTPGGS GGSSTPGGSG SSSGGGAGSS NSGGGSGSGN

 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

MPASVAHVPA AMLPPNVIDT DFIDEEVLMS LVIEMGLDRI KELPELWLGQ
NEFDFMTDFV CKQQPSRVSC LEHHHHHH.

Physical Appearance Sterile Filtered colorless solution.

Formulation The CITED2 solution contains 20mM Tris pH-8, 1mM DTT, 0.1M NaCl & 40% glycerol.

Purity Greater than 90.0% as determined by SDS-PAGE.

Stability CITED2 although stable 4°C for 4 weeks, should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

GENE INFORMATION

Gene Name CITED2 Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domain, 2 [Homo sapiens]

Synonyms CITED2; Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domain, 2; MRG1; P35SRJ; MSG-related protein 1; P35srj; Cbp/p300-interacting transactivator 2

Gene ID 10370

mRNA Refseq NM_006079

Protein Refseq NP_006070

MIM 602937

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UniProt ID	Q99967
Chromosome Location	6q23.3
Function	protein binding; transcription coactivator activity; transcription factor activity
PDB rendering based on 1r8u.	