

Recombinant Human C-terminal Binding Protein 1

Cat. No. CTBP1-2027H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human CtBP1 was expressed in <i>E. coli</i> and purified by using conventional chromatography techniques. MW = 47.5 kDa (440aa).
Species	Human
Source	<i>E. coli</i>
Description	C-terminal-binding protein 1 isoform 1, also known as CtBP1, is expressed from embryo to adult. This protein binds to the C-terminus of adenovirus E1A. It is a cellular phosphoprotein that associates with various proteins and functions as a corepressor of transcription. Also, CtBP1 associates in complexes with histone deacetylases (HDAC), the G9a histone methyltransferase, and LSD1 histone demethylase illustrating its role in transcriptional repression.
Sequences Of Amino Acids	MGSSHLLNKG LPLGVRPPIM NGPLHPRPLV ALLDGRDCTV EMPILKDVAT VAFCDASTQ EIHEKVLNEA VGALMYHTIT LTREDLEKFK ALRIIVRIGS GFDNIDIKSA GDLGIAVCNV PAASVEETAD STLCHILNLY RRATWLHQAL REGTRVQSVE QIREVASGAA RIRGETLGII GLGRVGQAVA LRAKAFGFNV LFYDPYLSDG VERALGLQRV STLQDLLFHS DCVTLHCGLN EHNHHLINDF TVKQMRQGAF LVNTARGGLV DEKALAQALK EGRIRGAALD VHESEPFSSFS QGPLKDAPNL ICTPHAAWYS EQASIEMREE AAREIRRAIT GRIPDSLKNC VNKDHLTAAT HWASMDPAVV HPELNGAAYR YPPGVVGVP TGIPAAVEGI VPSAMSLSHG LPPVAHPPHA PSPGQTVKPE ADRDHASDQL.

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Purity	> 90% by SDS – PAGE.
Form	Liquid. In 20mM Tris-HCl buffer (pH8.0) containing 100mM NaCl, 10% glycerol.
Concentration	1 mg/ml (determined by Bradford assay).
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.

GENE INFORMATION

Gene Name	CTBP1 C-terminal binding protein 1 [Homo sapiens]
Synonyms	CTBP1; C-terminal binding protein 1; BARS; MGC104684; brefeldin A-ribosylated substrate; C-terminal-binding protein 1; CtBP1; EC 1.1.1.-; CTBP
Gene ID	1487
mRNA Refseq	NM_001012614
Protein Refseq	NP_001012632
MIM	602618
UniProt ID	Q13363
Chromosome Location	4p16
Pathway	Chronic myeloid leukemia; Notch signaling pathway; Pathways in cancer; Wnt signaling pathway

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Function

NAD or NADH binding; cofactor binding; oxidoreductase activity; oxidoreductase activity, acting on the CH-OH group of donors, NAD or NADP as acceptor; protein C-terminus binding; protein binding; protein domain specific binding; transcription factor activity; transcription factor binding; transcription repressor activity

PDB rendering based on 1hku.

