Recombinant Full Length Human EBP Protein, C-Flag-tagged

Cat. No. EBP-579HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human EBP Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	The protein encoded by this gene is an integral membrane protein of the endoplasmic reticulum. It is a high affinity binding protein for the antiischemic phenylalkylamine Ca2+ antagonist [3H]emopamil and the photoaffinity label [3H]azidopamil. It is similar to sigma receptors and may be a member of a superfamily of high affinity drug-binding proteins in the endoplasmic reticulum of different tissues. This protein shares structural features with bacterial and eukaryontic drug transporting proteins. It has four putative transmembrane segments and contains two conserved glutamate residues which may be involved in the transport of cationic amphiphilics. Another prominent feature of this protein is its high content of aromatic amino acid residues (>23%) in its transmembrane segments. These aromatic amino acid residues have been suggested to be involved in the drug transport by the P-glycoprotein. Mutations in this gene cause Chondrodysplasia punctata 2 (CDPX2; also known as Conradi-Hunermann syndrome).
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	26.2 kDa

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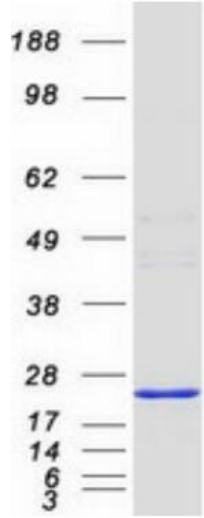
AA Sequence	MTTNAGPLHPYWPQHLRLDNFVPNDRPTWHILAGLFSVTGVLVVTTWLLSGRAAVV PLGTWRRLSLCWFA VCGFIHLVIEGWFVLYYEDLLGDQAFLSQLWKEYAKGDSRYI LGDNFTVCMETITACLWGPLSLWVVIAF LRQHPLRFILQLVVSVGQIYGDVLYFLTEH RDGFQHGELGHPLYFWFYFVFMNALWLVLPGVLVLDAVKH LTHAQSTLDAKATKAKSKKNTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Transmembrane
Protein Pathways	Metabolic pathways, Steroid biosynthesis
Full Length	Full L.

GENE INFORMATION

Gene Name	EBP EBP cholestenol delta-isomerase [Homo sapiens (human)]
Official Symbol	EBP
Synonyms	CPX; CHO2; CPXD; MEND; CDPX2

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Gene ID	10682
mRNA Refseq	NM_006579.3
Protein Refseq	NP_006570.1
MIM	300205
UniProt ID	Q15125



Coomassie blue staining of purified EBP protein.

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