

Recombinant Human EBP Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. EBP-6293H Lot. No. (See product label)

SPECIFICATION

Product Overview	EBP MS Standard C13 and N15-labeled recombinant protein (NP_006570) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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 eukaryotic 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).
Molecular Mass	26.4 kDa

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AA Sequence	MTTNAGPLHPYWPQHRLDNFVPNDRPTWHILAGLFSVTGVLVTTWLLSGRAAVV PLGTWRRRLSLCWFVAVCGFIHLVIEGWVFLYYEDLLGDQAFLSQLWKEYAKGDSRYIL GDNFTVCMETITACLWGPLSLWVVIAFLRQHPLRFILQLVVSQIYGDVLYFLTEHR DGFQHGELGHPLYFWFYFVFMNALWLVLPGVLVLDVAVKHLTHAQSTLDAKATKAKS KKNTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	EBP EBP cholesterol delta-isomerase [Homo sapiens (human)]
Official Symbol	EBP
Synonyms	EBP; emopamil binding protein (sterol isomerase); CDPX2, emopamil binding protein (sterol isomerase); 3-beta-hydroxysteroid-Delta(8),Delta(7)-isomerase; 3 beta hydroxysteroid delta 8; delta 7 isomerase; CHO2; Chondrodysplasia punctata 2; X linked dominant (Happle syndrome); CPX; CPXD; sterol 8 isomerase; sterol 8-isomerase; D8-D7 sterol isomerase; cholesterol Delta-isomerase; delta(8)-Delta(7) sterol isomerase; emopamil-binding protein (sterol isomerase); 3-beta-hydroxysteroid-delta-8,delta-7-isomerase; Chondrodysplasia punctata-2, X-linked dominant (Happle syndrome); CDPX2;

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Gene ID	10682
mRNA Refseq	NM_006579
Protein Refseq	NP_006570
MIM	300205
UniProt ID	Q15125
SDS-PAGE	