

## Product datasheet for **TP301706M**

### emopamil binding protein (EBP) (NM\_006579) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human emopamil binding protein (sterol isomerase) (EBP), 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC201706 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	<p>MTTNAGPLHPYWPQHRLRDNFVFNDRPTWHILAGLFSVTGVLVTTWLLSGRAAVPLGTWRRLSLCWFA VCGFIHLVIEGWVFLYYEDLLGDQAFLSQLWKEYAKGDSRYILGDNFTVCMETITACLWGPLSLWVVI AF LRQHPLRFILQLVSVGQIYGDVLYFLTEHRDGFQHGELGHPYFVWFVFMNALWLVLPGLVLDVAVKH LTHAQSTLDAKATKAKSKKN</p> <p><b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b></p>
Tag:	C-Myc/DDK
Predicted MW:	26.2 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<a href="#">NP_006570</a>
Locus ID:	10682
UniProt ID:	<a href="#">Q15125</a> , <a href="#">A0A024QYX0</a>



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RefSeq Size: 1191

Cytogenetics: Xp11.23

RefSeq ORF: 690

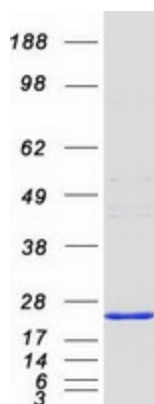
Synonyms: CDPX2; CHO2; CPX; CPXD; MEND

**Summary:** 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 Ca<sup>2+</sup> 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). [provided by RefSeq, Jul 2008]

**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** Metabolic pathways, Steroid biosynthesis

### Product images:



Coomassie blue staining of purified EBP protein (Cat# [TP301706]). The protein was produced from HEK293T cells transfected with EBP cDNA clone (Cat# [RC201706]) using MegaTran 2.0 (Cat# [TT210002]).