

Product datasheet for PH301706

emopamil binding protein (EBP) (NM_006579) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	EBP MS Standard C13 and N15-labeled recombinant protein (NP_006570)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC201706
Predicted MW:	26.4 kDa
Protein Sequence:	>RC201706 protein sequence Red=Cloning site Green=Tags(s) MTNAGPLHPYWPQHLRLDNFVPNDRPTWHILAGLFSVTGVLVVTWLLSGRAAVVPLGTRRRLSLCWFA VCGFIHLVIEGWFVLYYEDLLGDQAFLSQLWKEYAKGDSRYILGDNFTVCMETITACLWGPLSLWVVI AF LRQHPLRFILQLVVSQGQIYGDVLYFLTEHRDGFQHGELGHPLYFWFYVFMNALWLVLPGVLVLDVAVKH LTHAQSTLDAKATKAKSKKN TRTRPLEQKLI SEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_006570
RefSeq Size:	1191
RefSeq ORF:	690
Synonyms:	CDPX2; CHO2; CPX; CPXD; MEND
Locus ID:	10682
UniProt ID:	Q15125 , A0A024QYX0



[View online »](#)

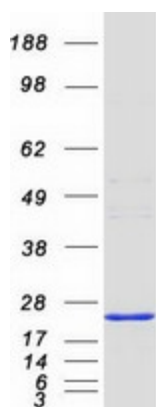
Cytogenetics: Xp11.23

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 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). [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]).