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32-3588: CRABP1 Recombinant Protein

Alternative Name : Cellular retinoic acid-binding protein 1,Cellular retinoic acid-binding protein I,CRABP-I,CRABP1,RBP5,CRABP,CRABPI.

Description

Source : Escherichia Coli. CRABP1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 137 amino acids and having a molecular mass of 15.5kDa. The CRABP1 is purified by proprietary chromatographic techniques. CRABP1 is a member of special carrier proteins for members of the vitamin A family. It is believed that CRABP1 has an essential role in retinoic acid-mediated differentiation and proliferation processes. Though, CRABP1 is structurally similar to the cellular retinol-binding proteins, it binds only retinoic acid at specific sites within the nucleus, which may contribute to vitamin A-directed differentiation in epithelial tissue. CRABP1 is constitutively expressed and is thought to have different functions in the cell than the related CRABP2. CRABP1 forms a beta-barrel structure which accommodates hydrophobic ligands in its interior.Loss of CRABP1 function as a result of hypermethylation of its promoter leads to pathogenesis of papillary thyroid carcinoma. Furthermore, frequent methylation-associated silencing of CRABP1 is linked to esophageal squamous-cell carcinoma.

Product Info

Amount :	20 µg
Purification :	Greater than 95.0% as determined by(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
Content :	The CRABP1 protein solution contains 20mM Tris-HCl buffer (pH8.0) and 10% glycerol.
Storage condition :	CRABP1 although stable 4°C for 4 weeks, should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.
Amino Acid :	MPNFAGTWKM RSSENFDELL KALGVNAMLR KVAVAAASKP HVEIRQDGDQ FYIKTSTTVR TTEINFKVGE GFEEETVDGR KCRSLATWEN ENKIHCTQTL LEGDGPKTYW TRELANDELI LTFGADDVVC TRIYVRE.