



Retinol Binding Protein-1, His Tag, human recombinant (rHuRBP1-His)

Catalog No: 97564
Lot No: XXXXX
Source: *E. coli*
Synonyms: Retinol binding protein 1 cellular, CRBP, CRBP1, CRABP-I, RBPC

Background

RBP1 is a member of the calycin superfamily and fatty-acid binding protein (FABP) family. RBP1 is the carrier protein which takes part in the transport of retinol (vitamin A alcohol) from the liver storage site to peripheral tissue. Additionally, RBP1 performs as a bridging molecule to recruit histone deacetylases (HDACs) which is a forceful regulator of gene expression. RBP1 is found in almost all the tissues with higher expression in pancreas, adrenal gland and pituitary gland, fetal liver and adult ovary.

Description

RBP1 human recombinant produced in *E. coli* is a single, non-glycosylated polypeptide chain containing 220 amino acids (1-197) and having a molecular mass of 24.7 kDa. RBP1 is fused to a 23 amino acid His Tag at N-terminus and purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered colorless solution.

Formulation

The RBP1 protein solution (0.5 mg/ml) containing 20 mM Tris-HCl buffer (pH8.0), 200 mM NaCl, 2 mM DTT and 20% glycerol.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Purity

Greater than 90% as determined by SDS-PAGE.

Amino Acid Sequence

MGSSHHHHHH SSSLVPRGSH MGSMDPPAGF VRAGNPAVAA PQSPLSPEGA HFRAAHHPRS TGSRCPGSLQ PSRPLVANWL
QSLPEMPVDF TGYWKMLVNE NFEEYLRALD VNVALRKIAN LLKPDKEIVQ DGDHMIIRTL STFRNYIMDF QVGKEFEEDL
TGIDDRKCMT TVSWDGDKLQ CVQKGEKEGR GWTQWIEGDE LHLEMRVEGV VCKQVFKKVQ

Usage

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