Recombinant Human RBP4 Protein

Catalog Number: PKSH033427

Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

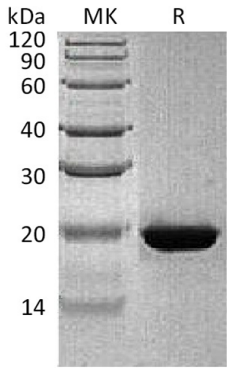
Description

Species	Human
Source	E.coli-derived Human RBP4 protein Glu19-Leu201
Calculated MW	21.2 kDa
Observed MW	20 kDa
Accession	P02753
Bio-activity	Not validated for activity

Properties

Purity	> 90 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 ℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 μm filtered solution of 50mM Tris-HCl, 10mM $CaCl_2$, 150mM NaCl, pH 7.5. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 90 % as determined by reducing SDS-PAGE.

Background

Retinol Binding Protein 4 (RBP4) is a member of the Lipocalin family and in the blood. RBP4 is the specific vector for retinol. RBP4 is expressed and secreted by adipose tissue; and is associated with insulin resistance. RBP4 delivers retinol from the liver stores to the peripheral tissues. In plasma; the RBP-retinol complex interacts with transthyretin to prevents its loss by filtration through the kidney glomeruli. Defects in RBP4 cause retinol-binding protein deficiency and can cause night vision problems.