Recombinant Human RHEB Protein (GST Tag)

Catalog Number: PKSH033545



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

Description

Synonyms GTP-Binding Protein Rheb;Ras Homolog Enriched in Brain;RHEB;RHEB2

Species Expression Host E.coli

Met1-Met184 **Sequence** Accession Q15382 Calculated Molecular Weight 20.4 kDa Observed molecular weight 45 kDa N-GST

Properties

Tag

Purity > 90 % as determined by reducing SDS-PAGE.

Endotoxin < 1.0 EU per µg of the protein as determined by the LAL method.

Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to **Storage**

-80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots

of reconstituted samples are stable at < -20°C 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 20mM PB, 8% Trehalose, 4%

Mannitol, 50mM NaCl, 10mM GSH, 0.05% Tween 80, pH6.5.

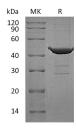
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

protectants before lyophilization.

Please refer to

Reconstitution Please refer to the printed manual for detailed information.

Data



> 90 % as determined by reducing SDS-PAGE.

Background

GTP-Binding Protein Rheb (RHEB) is a member of the small GTPase superfamily and encodes a lipid-anchored; cell membrane protein with five repeats of the RAS-related GTP-binding region. Highest levels of RHEB can be found in the skeletal and cardiac muscle; and it is vital in the regulation of growth and cell cycle progression due to its role in the Insulin/TOR/S6K signaling pathway. RHEB stimulates the phosphorylation of S6K1 and EIF4EBP1 through activation of mTORC1 signaling; and it activates the protein kinase activity of mTORC1. RHEB has GTPase activity and shuttles between a GDP-bound form and a GTP-bound form; farnesylation of the protein is required for this activity.

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