

Recombinant Human RHEB Protein (His Tag)

Catalog No. PKSH031137

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

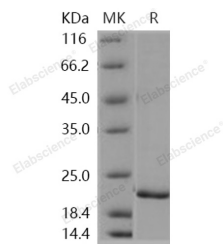
Description

Synonyms	GTP-Binding Protein Rheb; Ras Homolog Enriched in Brain; RHEB; RHEB2
Species	Human
Expression Host	Baculovirus-Insect Cells
Sequence	Met 1-Cys181
Accession	Q15382
Calculated Molecular Weight	22.4 kDa
Observed molecular weight	21 kDa
Tag	N-His
Bioactivity	Not validated for activity

Properties

Purity	> 85 % 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°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 sterile 20mM Tris, 500mM NaCl, 10% glycerol, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 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



> 85 % as determined by reducing SDS-PAGE.

Background

RHEB is a recently discovered member of the Ras superfamily that may be involved in neural plasticity. This function is novel and not typically associated with the Ras proteins. RHEB gene is a member of the small GTPase superfamily and

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encodes a lipid-anchored; cell membrane protein with five repeats of the RAS-related GTP-binding region. RHEB is vital in regulation of growth and cell cycle progression due to its role in the insulin / TOR / S6K signaling pathway. The protein has GTPase activity and shuttles between a GDP-bound form and a GTP-bound form; and farnesylation of RHEB is required for this activity. Three pseudogenes have been mapped; two on chromosome 10 and one on chromosome 22.