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# Recombinant Human GRB2 Protein (His Tag)

Catalog Number: PKSH032512

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

## Description

Species Human

Source E.coli-derived Human GRB2 protein Met 1-Val217, with an C-terminal His

Calculated MW 26.3 kDa
Observed MW 25-30 kDa
Accession P62993

**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

°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, 6% Sucrose, 4% Mannitol,

50mM NaCl, 0.05% Tween 80, pH8.0.

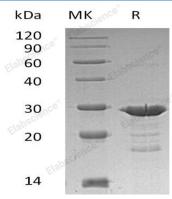
Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants

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

As an adaptor protein, Growth Factor Receptor-Bound Protein 2 (GRB2) is involved in siganl transduction and consists of a central SH2 domain flanked by two SH3 domains. GRB2 associates with activated Tyr-phosphorylated EGF receptor/ EGFR and PDGF receptors via its SH2 domain, stimulating GTP binding to Ras, which in turn activates MAPK and other signaling pathway. It also associates to other cellular Tyr-phosphorylated proteins such as SIT1, IRS1, IRS4, SHC and LNK. probably via the concerted action of both its SH2 and SH3 domains.

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