

# Recombinant Human GRB2 Protein (His Tag)

Catalog Number:PKSH032512



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

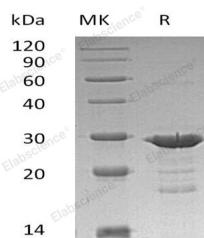
## Description

<b>Synonyms</b>	Growth Factor Receptor-Bound Protein 2;Adapter Protein GRB2;Protein Ash;SH2/SIgA Adapter GRB2;GRB2;ASH
<b>Species</b>	Human
<b>Expression Host</b>	E.coli
<b>Sequence</b>	Met 1-Val217
<b>Accession</b>	P62993
<b>Calculated Molecular Weight</b>	26.3 kDa
<b>Observed molecular weight</b>	25-30 kDa
<b>Tag</b>	C-His

## Properties

<b>Purity</b>	> 90 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	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.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	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% Tween80 are added as protectants before lyophilization. Please refer to the specific product page for detailed information.
<b>Reconstitution</b>	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 signal transduction and consists of a central SH2 domain flanked by two SH3 domains. GRB2 associates with activated Tyr-phosphorylated EGFR 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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