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Datasheet for ABIN1096789

**GRB2 Protein (AA 1-217) (His tag)**

## Overview

Quantity:	50 µg
Target:	GRB2
Protein Characteristics:	AA 1-217
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This GRB2 protein is labelled with His tag.

## Product Details

Purpose:	Recombinant Human Growth Factor Receptor-Bound Protein 2/GRB2/ASH (C-6His)
Sequence:	MEAIKYDFK ATADDELSFK RGDILKVLNE ECDQNWYKAE LNGKDGFIKP NYIEMKPHPW FFGKIPRAKA EEMLSKQRHD GAFLIRESES APGDFSLSVK FGNDVQHFKV LRDGAGKYFL WVVKFNSLNE LVDYHRSTSV SRNQIFLRD IEQVPQQPTY VQALFDFDPQ EDGELGFRRG DFIHVMDNSD PNWWKGACHG QTGMFPRNYV TPVNRNVLEH HHHHH
Characteristics:	Recombinant Human Growth Factor Receptor-Bound Protein 2/GRB2 is produced by our E. coli expression system. The target protein is expressed with sequence (Met1-Val217) of Human GRB2 fused with a 6His tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

## Target Details

Target:	GRB2
Alternative Name:	GRB2 ( <a href="#">GRB2 Products</a> )
Sub Type:	Fusionprotein
Background:	<p>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 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.</p> <p>Alternative Names: Growth Factor Receptor-Bound Protein 2, Adapter Protein GRB2, Protein Ash, SH2/SH3 Adapter GRB2, GRB2, ASH</p>
Molecular Weight:	26.3 kDa
UniProt:	<a href="#">P62993</a>
Pathways:	<a href="#">RTK Signaling</a> , <a href="#">TCR Signaling</a> , <a href="#">Fc-epsilon Receptor Signaling Pathway</a> , <a href="#">EGFR Signaling Pathway</a> , <a href="#">Neurotrophin Signaling Pathway</a> , <a href="#">Regulation of Actin Filament Polymerization</a> , <a href="#">Hepatitis C</a> , <a href="#">Signaling Events mediated by VEGFR1 and VEGFR2</a> , <a href="#">Signaling of Hepatocyte Growth Factor Receptor</a> , <a href="#">EGFR Downregulation</a>

## Application Details

Restrictions:	For Research Use only
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## Handling

Format:	Lyophilized
Reconstitution:	<p>It is not recommended to reconstitute to a concentration less than 100 µg/mL.</p> <p>Dissolve the lyophilized protein in ddH<sub>2</sub>O.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
Buffer:	Lyophilized from a 0.2 µm filtered solution of 20 mM TrisHCl, 150 mM NaCl, pH 8.0.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	4 °C/-20 °C/-80 °C
Storage Comment:	<p>Lyophilized protein should be stored at &lt; -20°C, though stable at room temperature for 3 weeks.</p> <p>Reconstituted protein solution can be stored at 4-7°C for 2-7 days.</p>

## Handling

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Aliquots of reconstituted samples are stable at < -20°C for 3 months.

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Expiry Date: 3 months