



3050 Spruce Street
Saint Louis, Missouri 63103 USA
Telephone 800-521-8956 • (314) 771-5765
Fax 800-325-5052 • (314) 771-5757
email: sigma-techserv@sial.com
Internet: <http://www.sigma.sial.com>

GRB2 SH2-domain - Protein A Fusion Protein
Recombinant, Expressed in E. coli
Product Number **G5650**
Storage Temperature -0°C

Product Information

Product Description

The product is a lyophilized powder containing 3-5% protein, the balance being PBS salts. It is tested for the binding of phosphorylated EGFR.

GRB2 is a key protein in signal transduction. It transfers the signal from tyrosine kinases such as EGF receptor to the small G protein Ras. GRB2 contains an SH2 (Src homology 2) domain which enables binding to tyrosine-phosphorylated receptors. The GRB2 SH2-domain Protein A fusion protein contains amino acids 50-161 of mouse GRB2 fused to a Staphylococcal Protein A moiety. This 37 kD fusion protein enables detection and purification of tyrosine-phosphorylated proteins (which bind to the SH2-domain) by utilizing the affinity of Protein A for the Fc domain of IgG in the detecting reagents.

Reconstitution in 500 µl of a 10% glycerol solution will result in a solution containing 0.5 mg-protein/ml in 50 mM potassium phosphate, pH 7.0, 150 mM NaCl and 10% glycerol.

Storage/Stability

The lyophilized product is stable for a least 2 years when stored at -20°C. A reconstituted solution is stable for at least 6 months at -20°C and at least 1 week at 4°C.

References

1. Olivier, J.P. et al., *Cell*, **73**, 179-191 (1993).
2. Margolis, B., *Progr. Biophysics Molec. Biol.*, **62**, 223 (1994).

MAM 4/29/98

Sigma brand products are sold through Sigma-Aldrich, Inc.

Sigma-Aldrich, Inc. warrants that its products conform to the information contained in this and other Sigma-Aldrich publications. Purchaser must determine the suitability of the product(s) for their particular use. Additional terms and conditions may apply. Please see reverse side of the invoice or packing slip.