
Product Data Sheet

Product Name: GRB2 Human
 Cat. No.: GP23597
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	ASH; Grb3-3; MST084; MSTP084; EGFRBP-GRB2; GRB2; Growth factor receptor-bound protein 2; Adapter protein GRB2; SH2/SH3 adapter GRB2; Protein Ash.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MEAIKYDFK ATADDELSFK RGDILKVLNE ECDQNWYKAE LNGKDGFIK NYIEMKPHPW FFGKIPRAKA EEMLSKQRHD GAFLIRESES APGDFSLSVK FGNDVQHFKV LRDGAGKYFL WVKFNSLNE LVDYHRSTSV SRNQQIFLRD IEQVPQQPTY VQALDFDFDPQ EDGELGFRRG DFIHVMDNSD PNWWKGACHG QTGMFPRNYV TPVNRNV.		
Formulation	The GRB2 protein solution contains 20mM Tris-HCl, pH-8 and 30% glycerol.		

Introduction

GRB2 is widely expressed and binds the EGFR and contains one SH2 domain and two SH3 domains which form a complex formation with proline-rich regions of other proteins, and its SH2 domain binds tyrosine phosphorylated sequences. GRB2 is related to the Sem5 gene of C.elegans, which is takes part in the signal transduction pathway. GRB2 is an adaptor protein that provides an important link between cell surface growth factor receptors and the Ras signaling pathway. Inhibition of GRB2 activity damages developmental processes in a variety of organisms and blocks transformation and proliferation of different cell types.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Caution: Product has not been fully validated for medical applications. For research use only.

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Background

GRB2 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 237 amino acids (1-217 a.a.) and having a molecular mass of 27 kDa. GRB2 is expressed with a 20 amino acid His tag at N-Terminus and purified by proprietary chromatographic techniques.

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