
Product Data Sheet

Product Name: RGS1 Human
 Cat. No.: GP24373
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Regulator of G-protein signaling 1; RGS1; B-cell activation protein BL34; Early response protein 1R20; 1R20; BL34; IER1; IR20.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSHMRAAAI STPKLDKMPG MFFSANPKEL KGTTHSLLDD KMQKRRPKTF GMDMKAYLRS MIPHLESGMK SSKSKDVLSA AEVMQWSQSL EKLLANQTGQ NVFGSFLKSE FSEENIEFWL ACEDYKKTES DLLPCKAEEI YKAFVHSDAA KQINIDFRTR ESTAKKIKAP TPTCFDEAQK VIYTLMEKDS YPRFLKSDIY LNLLNDLQAN SLK.		
Formulation	RGS1 protein solution (0.25mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 10% glycerol and 1mM DTT.		

Introduction

RGS1 belongs to the regulator of G-protein signaling family. The RGS1 protein is situated on the cytosolic side of the plasma membrane and contains a conserved, 120 amino acid motif termed the RGS domain. RGS1 diminishes the signaling activity of G-proteins by binding to activated, GTP-bound G alpha subunits and performing as a GTPase activating protein (GAP), boosting the rate of conversion of the GTP to GDP. This hydrolysis allows the G alpha subunits to bind G beta/gamma subunit heterodimers, creating inactive G-protein heterotrimers, thus terminating the signal.

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.

Background

RGS1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

chain containing 233 amino acids (1-209 a.a) and having a molecular mass of 26kDa. RGS1 is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA