
Product Data Sheet

Product Name: BMPR1A Human, IgG-His

Cat. No.: GP20095

Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.

Synonyms BMPR1A; 10q23del; ACVRLK3; ALK3; CD292; SKR5; Bone Morphogenetic Protein Receptor Type 1A; Bone Morphogenetic Protein Receptor; Type IA; Serine/Threonine-Protein Kinase Receptor R5; Activin Receptor-Like Kinase 3; BMP Type-1A Receptor; EC 2.7.11.30; ALK-3; Bone Morphogenetic Protein Receptor Type-1A; Activin A Receptor; Type II-Like Kinase 3; CD292 Antigen; EC 2.7.1.

Amino Acid Sequence ADPQNLD SML HGTGMKSDSD QKSENGVTL APEDTLPFLK CYCSGHCPDD AINNTCITNG HCF AIEEDD QGETTLASGC MKYEGSDFQC KDSPKAQLRR TIECCRTNLC NQYLQPTLPP VVIGPFFDGS IRLEPKSCDK THTCPPCPAP ELLGGPSVFL FPPKPKDTLM ISRTPEVTCV VVDVSHEDPE VKFNWYVDGV EVHNAKTKPR EEQYNSTYRV VSVLTVLHQD WLNGKEYKCK VSNKALPAPI EKTISKAKGQ PREPQVYTL P PSRDELTKNQ VSLTCLVKGF YPSDIAVEWE SNGQPENNYK TTPPVLDSDG SFFLYSKLTV DKSRWQQGNV FSCSVMHEAL HNHYTQKSLS LSPGKHHHHH H.

Formulation BMPR1A protein solution (1mg/ml) contains Phosphate Buffered Saline (pH7.4) and 10% glycerol.

Introduction

The bone morphogenetic protein (BMP) receptors are a family of transmembrane serine/threonine kinases that include the type I receptors BMPR1A and BMPR1B and the type II receptor BMPR2. These receptors are also closely related to the activin receptors, ACVR1 and ACVR2. The ligands of these receptors are members of the TGF-beta superfamily. TGF-betas and activins transduce their signals through the formation of heteromeric complexes with 2 different types of serine (threonine) kinase receptors: type I receptors of about 50-55 kD and type II receptors of about 70-80 kD. Type II

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

receptors bind ligands in the absence of type I receptors, but they require their respective type I receptors for signaling, whereas type I receptors require their respective type II receptors for ligand binding.

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

BMPRII Human Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 371 amino acids (24-152a.a.) and having a molecular mass of 41.4kDa (Molecular size on SDS-PAGE will appear at approximately 40-57kDa). BMPRII is fused with a 242 amino acids hlgG-His tag at C-Terminus and 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