

BMPR1A Human HEK

Description: BMPR1A Human Recombinant produced in HEK-293 cells is a single, glycosylated, polypeptide chain containing 369 amino acids with a molecular weight of 43.7 kDa though on SDS-PAGE migrates at about 50 kDa due to the glycosylation. The BMPR1A is purified by proprietary chromatographic techniques.

Synonyms: BMPR-1A, BMP-R1A, BMPR1A, BMR1A, CD292, CD-292, Serine/threonine-protein kinase receptor R5, SKR5, Activin receptor-like kinase 3, ALK-3, ACVRLK3, EC 2.7.11.30, CD292 antigen.

Source: HEK293-F Cells.

Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

Amino Acid Sequence: QNLD SMLHGT GMKSDSDQKK SENGVTLAPE DTL PFLKCYC
SGHCPDDAIN NTCITNGHCF AIEEDDQGE TTLASGCMKY EGSD FQCKDS PKAQLRRTIE
CCRTNLCNQY LQPTLPPVVI GPFFDGSIRE NLYFQGGSGT KLDKTHTCPP CPAPELLGGP
SVFLFPKPK DTLMSRTP E VTCVVVDVSH GDPEVKFNWY VDGVEVHNAK TKPREEQYNS
TYRVSVLTV LH

Purity: Greater than 95.0% as determined by SDS-PAGE.

Formulation:

The BMPR1A protein was lyophilized from a 0.2

Stability:

Lyophilized BMPR1A although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution BMPR1A should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Solubility:

It is recommended to reconstitute the lyophilized BMPR1A in sterile 18M-cm H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

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 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.

Biological Activity:

The biological activity of human BMPR1A is determined by its ability to inhibit human BMP-4 induction of alkaline phosphatase in the mouse chondrogenic cell line ATDC5. The observed ED50 range is from 0.1 to 0.3

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