

Human BMPR1A Recombinant Protein



RPPB0090

Product Information Protein Information

Product SKU:

RPPB0090

Accession:

P36894

Host:

CHO cells.

Protein description:

Bone Morphogenetic Protein Receptor-1A Human Recombinant produced in CHO cells is a glycosylated homodimer chain containing 2x362 amino acids and having a total molecular mass of 80.8kDa. BMPR1A is purified by proprietary chromatographic techniques.

Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Synonyms:

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

Formulation:

The protein was lyophilized from a sterile (0.2µm) filtered solution containing PBS.

Purity:

Greater than 95.0% as determined by SDS-PAGE.

Solubility:

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

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. Please prevent freeze-thaw cycles.

Amino Acid Sequence:

QNLDSMLHGT GMKSDSDQKK SENGVTLAPE DTLPFLKCYC SGHCPDDAIN NTCITNGHCF AIIEDDQGE
TTLASGCMKY EGSDQCKDS PKAQLRRTIE CCRNLCNQY LQPTLPPVVI GPFFDGSIRI EGRMDDKTHT
CPPCPAPELL GGPSVFLFPP KPKDTLMISR TPEVTCVVVD VSHEDPEVKF NWYVDGVEVH NAKTKPREEQ
YNSTYRVVSV LTVLHQDWLN GKEYKCKVSN KALPAIEKT ISKAKGQPRE PQVYTLPPSR DELTKNQVSL
TCLVKGFYPS DIAVEWESNG QPENNYKTP PVLDSGDSFF LYSKLTVDKS RWQQGNVFSC SVMHEALHNN
YTQKSLSLSP GK.

Biological Activity:

The ED₅₀, as calculated by the Inhibition of human BMP-4-induced alkaline phosphatase production caused by ATDC5 cells is 120ng/ml corresponding to a specific activity of 8.3x10³ units/mg.