

Human Activin B Recombinant Protein



RPPB0007

Product Information Protein Information

Product SKU:

RPPB0007

Accession:

P09529

Host:

Nicotiana
benthamiana plant

Protein description:

Activin B human Recombinant produced in Nicotiana benthamiana plant is a beta-B single chain (aa 293-406) containing 123 amino acids (molecular formula C₆₁₅H₉₁₀N₁₇₈O₁₇₇S₁₂). Activin B is fused to a 10-His-tag at the N-terminal having the total molecular mass of 14kDa and purified by standard chromatographic techniques.

Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Synonyms:

Inhibin beta B (activin AB beta polypeptide), Inhibin, beta-2, Activin beta-B chain, MGC157939.

Formulation:

Lyophilized from 1mg/ml solution in 0.05M Tris-HCl buffer pH 7.4.

Purity:

Greater than 97.0% as determined by Analysis by SDS-PAGE.

Solubility:

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

Stability:

Lyophilized Activin B although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Activin B 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.

Amino Acid Sequence:

HHHHHHHHHH GLECDGRTNL CCRQQFFIDF RLIGWNDWII APTGYGNYC EGSCPAYLAG VPGSASSFHT
AVVNQYRMRG LNPQTVNSCC IPTKLSTMSM LYFDDEYNIV KRDVPMIVE ECG.

Biological Activity:

The biological activity of Activin B is measured by its ability to inhibit mouse plasmacytoma cell line (MPC-11) cells proliferation. EC₅₀ <5ng/ml is required to stimulate a half-maximal response at cytokine saturation. Note: Since applications vary, each investigator should titrate the reagent to obtain optimal results.