

Human IL 13 Variant Recombinant Protein



RPPB0575

Product Information Protein Information

Product SKU:

RPPB0575

Accession:

P35225

Host:

Escherichia Coli.

Protein description:

Interleukin-13 Variant Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 114 amino acids, with a substitution of Q for R at position 112 compared with the wild type IL-13, having a molecular mass of 12.5 kDa. The IL-13 Variant is purified by proprietary chromatographic techniques.

Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Synonyms:

Interleukin-13, NC30, ALRH, BHR1, P600, IL-13, MGC116786, MGC116788, MGC116789.

Formulation:

Lyophilized from a 0.2µm filtered concentrated solution in 1xPBS, pH 7.2, containing 5% trehalose.

Purity:

Greater than 95% as determined by(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.

Solubility:

It is recommended to reconstitute the lyophilized Interleukin 13 Variant in sterile 18MΩ-cm H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Stability:

Lyophilized Interleukin-13 Variant although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL13 Variant 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:

SPGPVPPSTA LRELIEELVN ITQNQKAPLC NGSMVWSINL TAGMYCAALE SLINVSGCSA IEKTQRMLSG
FCPHKVSAGQ FSSLHVRDTK IEVAQFVKDL LLHLKFLFRE GQFN.

Biological Activity:

The ED₅₀ was determined by the dose dependent proliferation of TF-1 cells and was found to be < 1ng/ml, corresponding to a specific activity of >1,000,000 units/mg. This analog has also been shown to exhibit increased in vivo activity compared to wild type IL-13.