

## Interleukin-13 Variant Human Recombinant

<b>Item Number</b>	rAP-0640
<b>Synonyms</b>	Interleukin-13, NC30, ALRH, BHR1, P600, IL-13, MGC116786, MGC116788, MGC116789.
<b>Description</b>	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
<b>Uniprot Accession Number</b>	P35225
<b>Amino Acid Sequence</b>	SPGPVPPSTA LRELIEELVN ITQNQKAPLC NGSMVWSINL TAGMYCAALE SLINVSGCSA IEKTQRMLSG FCPHKVSAGQ FSSLHVRDTK IEVAQFVKDL LLHLKKLFRE GQFN.
<b>Source</b>	Escherichia Coli.
<b>Physical Appearance and Stability</b>	Sterile Filtered White lyophilized (freeze-dried) powder. 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.
<b>Formulation and Purity</b>	Lyophilized from a 0.2µm filtered concentrated solution in 1xPBS, pH 7.2, containing 5% trehalose. Greater than 95% as determined by (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
<b>Application</b>	
<b>Solubility</b>	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.
<b>Biological Activity</b>	The ED50 was determined by the dose dependent proliferation of TF-1 cells and was found to be 1,000,000 units/mg. This analog has also been shown to exhibit increased in vivo activity compared to wild type IL-13.
<b>Shipping Format and Condition</b>	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**