

Interleukin-13 Human Recombinant

Item Number	rAP-0588
Synonyms	NC30, ALRH, BHR1, P600, IL-13, MGC116786, MGC116788, MGC116789.
Description	Interleukin-13 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 112 amino acids and having a molecular mass of 12 kDa. The IL-13 is purified by proprietary chromatographic techniques.
Uniprot Accesion Number	P35225
Amino Acid Sequence	GPVPPSTALRELIEELVNITQNQKAPLCNGSMVWSINLTAGMYCAALES-LINVSGCSAIEKTQRMLSGFCPHKVSAGQFSSLHVRDTKIEVAQFVKDLLLHLKFLFREGRFN.
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized Interleukin-13 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL13 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.
Formulation and Purity	The protein (1mg/ml) was lyophilized with 1xPBS pH-7.2 & 5% trehalose. Greater than 95% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
Application	
Solubility	It is recommended to reconstitute the lyophilized Interleukin 13 in sterile 18MΩ-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	The ED50 was determined by the dose dependent proliferation of TF-1 cells and was found to be $\leq 1\text{ ng/ml}$, corresponding to a specific activity of $\geq 1 \times 10^6\text{ units/mg}$.
Shipping Format and Condition	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**