

# Growth Factor Data Sheet

GoldBio growth factors are manufactured for **RESEARCH USE ONLY** and cannot be sold for human consumption!

IL22 is part of the IL10 family of regulatory cytokines, which includes IL10, IL19, IL20, IL22, IL24 and IL26. Members of this family share partial homology in their amino acid sequences, but they are dissimilar in their biological functions. Produced by activated T-lymphocytes and dendritic cells, IL10 contributes to the inflammatory response *in vivo*. IL22 uses CRF2-4, a member of the class II cytokine receptor family, and IL22R, IL22 receptor, to produce its downstream effects. IL22 and IL17 are rapidly produced by splenic lymphoid tissue inducer-like cells (LTi-like cells) and Th17 cells and likely plays a role in the coordinated response of both the adaptive and innate immune systems.

<b>Catalog Number</b>	<b>1110-22</b>
<b>Product Name</b>	<b>IL22, Human</b> Recombinant Human Interleukin-22 IL22 Interleukin 22 Interleukin 10-Related T-cell-derived Inducible Factor (ILTIF)
<b>Source</b>	<i>Escherichia coli</i>
<b>MW</b>	~33.6 kDa (two non-disulfide-linked 147 amino acid polypeptide chains)
<b>Sequence</b>	MAPISSHCRL DKSNFQQPYI TNRTFMLAKE ASLADNNTDV RLIGEKLFHG VMSMERCYLM KQVLNFTLEE VLFQSDRFQ PYMQEVPFL ARLSNRLSTC HIEGDDLHIQ RNVQKLKDTV KKLGESGEIK AIGELDLLFM SLRNACI
<b>Accession Number</b>	<a href="#">Q9GZX6</a>
<b>Purity</b>	>97% by SDS-PAGE and HPLC analyses
<b>Biological Activity</b>	Fully biologically active when compared to standard. The ED <sub>50</sub> as determined by inducing IL-10 secretion of human COLO 205 cells is less than 0.3 ng/ml, corresponding to a specific activity of >3.3 × 10 <sup>6</sup> IU/mg.
<b>Formulation</b>	Sterile filtered white lyophilized powder. Purified and tested for use in cell culture.
<b>Storage/Handling</b>	This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage. The reconstituted sample can be apportioned into working aliquots and stored at -80 °C for up to 6 months. Avoid repeated freeze/thaw cycles.
<b>Reconstitution</b>	The sample should be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in a siliconized tube using PBS that contains a 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Reconstituted solutions are stable for up to one week at 2-8°C. Stock solutions should be aliquoted and stored at -80°C. Further dilutions should be made in appropriate buffered solutions containing BSA or serum.