

Human IL-22

Human Interleukin 22

Synonyms: ALRH, BHR1, NC 30

PLEASE NOTE: ALWAYS CENTRIFUGE VIAL BEFORE OPENING

Size	Order #	Lot #	Expiry Date
2 µg	1586.950.002		
10 µg	1586.950.010		
1 mg	1586.950.199		

Please enquire for bulk quantities and other vial sizes

Description

Recombinant human IL-22 is a single, non-glycosylated homodimeric polypeptide chain containing 2x147 amino acids with a molecular mass of 33,6 kDa. References show cross reactivity with Mouse, and Monkey. IL-22 is a member of the IL-10 family of regulatory cytokines, which includes IL-10, IL-19, IL-20, IL-22, IL-24 and IL-26. Members of this family share partial homology in their amino acid sequences, but they are dissimilar in their biological functions. Produced by T lymphocytes, IL-22 inhibits IL-4 production by Th2 cells, and induces acute phase reactants in the liver and pancreas. IL-22 signals through a receptor system consisting of IL-10Rβ/CRF2-4 and IL-22R, both of which are members of the class II cytokine-receptor family.

- **Biological Activity** see below
- **Source** *E. Coli*
- **Purity** ≥ 97 % (SDS-PAGE, RP-HPLC)
- **Endotoxin level** ≤ 0.1ng/µg (≤ 1EU/µg)
- **Stabilizer** None
- **Buffer** Phosphate (50mM, pH 7.1)*
- **Physical state** Sterile filtered, lyophilized

Biological Activity

Determined by its ability to activate STAT following receptor ligand interaction. An ED₅₀ of 0,6-1,1ng/ml was measured for the induction of IL-10 secretion in COLO 205 cells.

Reconstitution

We recommend a quick spin followed by reconstitution in sterile Water at a concentration of 0.1 mg/ml, which can then be further diluted into other aqueous or buffered solutions.

Stability

The lyophilized protein is stable for at least 1 year from date of receipt if stored at -20°C to -80°C. Reconstituted IL-22 should be stored at 4°C if entire vial will be used within 1 week. It is stable for least 3 months when stored in working aliquots below -20°C. **Please avoid repeated freeze-thaw cycles.**

Amino Acid Sequence

MAPISSHCRL DKSNFQQPYI TNRTFMLAKE ASLADNNTDV RLIGEKLFHG VMSERCYLM KQVLNFTLEE
 VLFPSDRFQ PYMQEVVPFL ARLSNRLSTC HIEGDDLHIQ RNVQKLKDTV KKLGESGEIK AIGELDLLFM
 SLRNACI

Usage: For research use only. Not for use in diagnostic or therapeutic procedures. Not for human use.

*The Buffer may vary depending on the Lot #. Please contact our technical support if you have specific requirements.

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