

Product: **Recombinant Human Interleukin-15 / IL-15**
Cat #: 300-138P
Powder

Description	Interleukin 15 (IL-15) is a widely expressed pro-inflammatory cytokine related to IL-2. IL-15 promotes activation of T cells, neutrophils and macrophages and is critical to dendritic cell function in several model systems. IL-15 has been shown to play a role in several inflammatory disorders, including rheumatoid arthritis, psoriasis and pulmonary inflammatory diseases. Emerging data suggests that IL-15 may serve as a good therapeutic target, as there appears to be a beneficial effect of IL-15 neutralization in models of psoriasis and diabetes. Human IL-15 shows activity on mouse cells. Alternate names: IL-T
MW	Non-glycosylated protein, containing 114 amino acids, with a molecular weight of 12.8 kDa.
Physical Appearance	Sterile filtered white lyophilized (freeze-dried) powder.
Source	<i>E. coli</i>
Formulation	Recombinant human IL-15 is lyophilized from 10 mM NaHCO ₃ (sodium bicarbonate), pH 8.0.
Reconstitution	Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions.
Stability	Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.
Biological Activity	The activity is determined by the dose-dependant stimulation of the proliferation of mouse CTLL-2 cells and is typically less than 0.5 ng/mL
Endotoxin Level	Measured by kinetic LAL analysis and is typically ≤ 1 EU/μg protein.
AA Sequence	MNWWNVISDL KKIEDLIQSM HIDATLYTES DVHPSCKVTA MKCFLLLELQV ISLESGDASI HDTVENLIL ANNSLSSNGN VTESGCKECE ELEEKNIKEF LQSFVHIVQM FINTS

Purity greater than 98% determined by HPLC, Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm.

Protein content determined by HPLC, Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm.

THIS PRODUCT IS FOR RESEARCH USE ONLY AND IS NOT FOR USE IN HUMANS!