

## Technical Data Sheet

## Recombinant Human IL-15

## Product Information

Material Number:	560254
Size:	5 µg
Reactivity:	QC Testing: Human
Storage Buffer:	Lyophilized in an aqueous buffered solution containing BSA.

## Description

Interleukin-15 (IL-15) is a potent immunoregulatory cytokine produced by a variety of cell types including monocytes and epithelial cells. This T cell growth factor can enhance the cytolytic activity of antigen-specific T cells and lymphokine-activated killer cells. Human IL-15 is an 11 kDa protein, as determined by SDS-PAGE analysis. Recombinant human IL-15 (Cat. No. 560254) is provided lyophilized, containing bovine serum albumin and no preservatives. Recombinant human IL-15 is  $\geq 95\%$  pure as determined by SDS-PAGE, and an absorbance assay based on the Beers-Lambert law. The endotoxin level is  $\leq 0.1$  ng per µg of human IL-15, as measured in a chromogenic LAL assay.

## Preparation and Storage

Store undiluted at -20°C.  
 Avoid multiple freeze-thaws of product.  
 This preparation contains no preservatives, thus it should be handled under aseptic conditions.

## Application Notes

## Application

ELISA Standard	Routinely Tested
Bioassay	Tested During Development

## Recommended Assay Procedure:

Store lyophilized recombinant human IL-15 at -20°C prior to reconstitution. This material may be reconstituted using Assay Diluent (Cat. No. 555213) or an equivalent neutral buffer containing no less than 0.5 - 1 mg/mL carrier protein, such as human or bovine albumin. Reconstituted recombinant human IL-15 should be aliquoted and stored at -80°C. Failure to add carrier protein or store at indicated temperatures may result in a loss of activity. Carrier proteins should be pre-screened for possible effects in each investigator's experimental system. Carrier proteins may have an undesired influence on experimental results due to toxicity, high endotoxin levels or possible blocking activity.

**ELISA Standard:** Recombinant human IL-15 (Cat. No. 560254) can be useful as a quantitative standard for measuring human IL-15 protein levels using sandwich ELISA with the purified G243-935 antibody (Cat. No. 554712) as a capture antibody and biotinylated G243-886 antibody (Cat. No. 554713) as the detection antibody. To obtain linear standard curves, investigators may want to consider using doubling dilutions of recombinant human IL-15 standard from 2000 - 15 pg/mL to be included in each ELISA plate. For measuring human IL-15 in serum or plasma, investigators are highly encouraged to use BD OptEIA™ Human IL-15 ELISA Set (Cat. No. 559268).

**Bioassay:** Investigators are advised that the Bioassay application is not routinely tested for this material and are highly encouraged to both titrate this material and include appropriate controls in relevant experiments. An activity range of  $1 - 4.5 \times 10^8$  units/mg, encompassing an ED50 = 15 - 200 pg/mL, has previously been reported using CTLL-2 indicator cells for proliferation, with a unit defined as the amount of material needed to stimulate a half-maximal response at cytokine saturation.

## Suggested Companion Products

Catalog Number	Name	Size	Clone
554712	Purified Mouse Anti-Human IL-15	0.5 mg	G243-935
554713	Biotin Mouse Anti-Human IL-15	0.5 mg	G243-886
559268	Human IL-15 ELISA Set	20 plates	(none)
555213	Assay Diluent	500 ml	(none)

## Product Notices

1. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
2. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
3. Please refer to [www.bdbiosciences.com/pharmingen/protocols](http://www.bdbiosciences.com/pharmingen/protocols) for technical protocols.

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