

Recombinant Human IL2/diphtheria toxin, His-tagged therapeutic protein(Denileukin diftitox)

Cat. No. diphtheria toxin&IL2-P031H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	A recombinant DNA-derived cytotoxic protein composed of the amino acid sequences for diphtheria toxin fragments A and B (Met 1-Thr 387)-His followed by the sequences for interleukin-2 (IL-2; Ala 1-Thr 133). It is produced in an E. coli expression system.
Species	Human
Source	E.coli
ProteinLength	diphtheria toxin fragments A and B (Met 1-Thr 387); IL-2(la 1-Thr 133)
Description	The expression product is the active ingredient of Ontak.
Molecular Mass	57.6 kDa
AA Sequence	<p>MGADDVVDSSKSFVMENFSSYHGTPGYVDSIQKGIQPKPGSGTQGNYYYYDDWKGFY</p> <p>STDNKYDAAGYSVDNE NPLSGKAGGVVKVTYPGLTKVLALKVDNAETIKKELGLSLT</p> <p>EPLMEQVGTEEFIKRFGDGASRVVLSLPFA EGSSSVEYINNWEQAKALSVELEINFE</p> <p>TRGKRQGDAMYEYMAQACAGNRVRRSVGSSSLSCINLDWDVIRDK TKTKIESLKEH</p> <p>GPIKNKMSESPNKTVSEEKAKQYLEEFHQTALEHPELSELKTVTGTNPVFAGANYAA</p> <p>WAV NVAQVIDSETADNLEKTTAALSILPGIGSVMGIADGAVHHNTEEEIVAQSIASSL</p> <p>MVAQAIPLVGELVDIG FAAYNFVESIINLFQVVHNSYNRPAYSPGHKTHAPTSSTKK</p> <p>TQLQLEHLLLDLQMILNGINNYKNP KLTRMLTFKFYMPKKATELKHLCLEELKPLE</p> <p>EVLNLAQSKNFHLRPRDLISNINVIVLELKGSETTFMC EYADETATIVEFLNRWITFCQ</p> <p>SIISTLT</p>

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Endotoxin	< 1.0 EU per µg of the protein
Purity	>95%
Storage	Can be stored at +4 centigrade short term (1-2weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.
Alias	IL2; IL 2; TCGF; IL-2; Denileukin diftitox

GENE INFORMATION

Gene Name	IL2 interleukin 2 [Homo sapiens]
Official Symbol	IL2
Synonyms	IL2; interleukin 2; interleukin-2; IL 2; T cell growth factor; TCGF; aldesleukin; involved in regulation of T-cell clonal expansion; IL-2; lymphokine;
Gene ID	3558
mRNA Refseq	NM_000586
Protein Refseq	NP_000577
MIM	147680
UniProt ID	P60568
Chromosome Location	4q26-q27

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Pathway

Allograft rejection, organism-specific biosystem; Allograft rejection, conserved biosystem; Autoimmune thyroid disease, organism-specific biosystem; Autoimmune thyroid disease, conserved biosystem; Calcineurin-regulated NFAT-dependent transcription in lymphocytes, organism-specific biosystem; Calcium signaling in the CD4+ TCR pathway, organism-specific biosystem; Chagas disease (American trypanosomiasis), organism-specific biosystem;

Function

carbohydrate binding; cytokine activity; glycosphingolipid binding; growth factor activity; interleukin-2 receptor binding; interleukin-2 receptor binding; kappa-type opioid receptor binding; kinase activator activity;

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