Recombinant Human IL13 therapeutic protein(Cintredekin besudotox)

Cat. No. IL13-P041H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	It has been developed as a specific tumor-targeting agent, which is administered by positive-pressure convection-enhanced delivery (CED) directly to brain tissue at risk for residual infiltrating glioblastoma multiforme (GBM) after tumor resection. cintredekin besudotox is made from a human protein, Interleukin 13 (IL13), linked to a bacterial toxin, Pseudomonas exotoxin (PE). The IL13 portion binds to receptors on the tumor.
Species	Human
Description	A recombinant chimeric protein with potent antitumor activity. Cintredekin besudotox is composed of interleukin-13 (IL13), a pleiotropic immunoregulatory cytokine, linked to a mutated form of pseudomonas exotoxin A; this agent targets and kills tumor cells that express the IL13 receptor (IL13R). The IL13 moiety attaches to the IL13R on the tumor cell membrane, facilitating the entry of the exotoxin. The exotoxin moiety induces caspase-mediated apoptosis of tumor cells via a mechanism involving mitochondrial damage; it also catalyzes the transfer of ADP ribose from nicotinamide adenine dinucleotide (NAD) to elongation factor-2 in eukaryotic cells, thereby inactivating elongation factor 2 and inhibiting protein synthesis.
Endotoxin	< 0.1 EU per μg of the protein
Purity	>96%

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GENE INFORMATION

Gene Name	IL13 interleukin 13 [Homo sapiens]
Official Symbol	IL13
Synonyms	IL13; interleukin 13; interleukin-13; allergic rhinitis; ALRH; BHR1; Bronchial hyperresponsiveness 1 (bronchial asthma); IL 13; MGC116786; MGC116788; MGC116789; P600; Bronchial hyperresponsiveness-1 (bronchial asthma); IL-13;
Gene ID	3596
mRNA Refseq	NM_002188
Protein Refseq	NP_002179
MIM	147683
UniProt ID	P35225
Chromosome Location	5q31
Pathway	Asthma, organism-specific biosystem; Asthma, conserved biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Cytokines and Inflammatory Response, organism-specific biosystem; Fc epsilon RI signaling pathway, organism-specific biosystem; Fc epsilon RI signaling pathway, conserved biosystem;
Function	cytokine activity; interleukin-13 receptor binding; protein binding;

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