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## Product Data Sheet

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Product Name: IL4R Human  
 Cat. No.: GP20506  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Interleukin 4 Receptor; IL-4 Receptor Subunit Alpha; Interleukin 13 Receptor; IL-4RA; IL4RA; Interleukin-4 Receptor Subunit Alpha; Interleukin-4 Receptor Alpha Chain; IL4R Nirs Variant 1; IL-4R Subunit Alpha; CD124 Antigen; IL-4R-Alpha; CD124; IL4R.		
Amino Acid Sequence	MKVLQEPTCV SDYMSISTCE WKMNGPTNCS TELRLLYQLV FLLSEAHTCI PENNGGAGCV CHLLMDDVVS ADNYTLDLWA GQQLLWKGSF KPSEHVKPR PGNLTVHTNV SDTLLLTWSN PYPPDNYLYN HLTYAVNIWS ENDPADFRIY NVTYLEPSLR IAASTLKSGI SYRARVRAWAQCYNNTWSEW SPSTKWHNSY REPFEQHLEH HHHHH		
Formulation	IL4R protein solution (0.25mg/ml) contains Phosphate buffered saline (pH7.4).		

### Introduction

IL4 is a pleiotropic cytokine produced by activated T cells. IL4 is a ligand for interleukin 4 receptor. The interleukin 4 receptor also binds to IL13, which may contribute to many overlapping functions of this cytokine and IL13. STAT6, a signal transducer and activator of transcription, has been shown to play a central role in mediating the immune regulatory signal of this cytokine. This gene, IL3, IL5, IL13, and CSF2 form a cytokine gene cluster on chromosome 5q, with this gene particularly close to IL13. IL4, IL13 and IL5 are found to be regulated coordinately by several long-range regulatory elements in an over 120 kilobase range on the chromosome. Two alternatively spliced transcript variants of this gene encoding distinct isoforms have been reported.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

**Caution: Product has not been fully validated for medical applications. For research use only.**

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periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

IL4R produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain (26-232 a.a.) and fused to an 8 aa His Tag at C-terminus containing a total of 215 amino acids and having a molecular mass of 24.7kDa. IL4R shows multiple bands between 28-40kDa on SDS-PAGE, reducing conditions and purified by proprietary chromatographic techniques.

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