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## Product Data Sheet

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Product Name: IL 23 Human, His  
 Cat. No.: GP20627  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.

Synonyms Interleukin 23 alpha subunit p19; Interleukin-12 subunit beta p40; SGRF; IL23P19; IL-23-A; interleukin-six; G-CSF related factor; JKA3 induced upon T-cell activation; interleukin 12B (natural killer cell stimulatory factor 2 cytotoxic lymphocyte maturation factor 2 p40); NK cell stimulatory factor chain 2; Cytotoxic lymphocyte maturation factor 40 kDa subunit; CLMF2; CLMF p40.

Amino Acid Sequence  
 IL12B: IWELKKDVYV VELDWYPDAP GEMVVLTC DT PEEDGITWTL  
 DQSSEVLGSG KTLTIQVKEF GDAGQYTCHK GGEVLSHSL LLHKKEDGIW  
 STDILKDQKE PKNKTFLRCE AKNYSGRFTC WWLTTISTDL TFSVKSSRGS  
 SDPQGVTCGA ATLSAERVRG DNKEYEYSVE CQEDSACPAE EESLPIEVMV  
 DAVHKLKYEN YTSSFFIRDI IKPDPKLNQ LKPLKNSRQV EVSWEYPDTW  
 STPHSYFSLT FCVQVQGKSK REKKDRVFTD KTSATVICRK NASISVRAQD  
 RYYSSSWSEW ASVPCS.IL23A: RAVPGGSSPA WTQCQQLSQK LCTLAWSAHP  
 LVGHMDLREE GDEETTNDVP HIQCGDGCDP QGLRDNSQFC LQRIHQGLIF  
 YEKLLGSDIF TGEPSELLPDS PVGQLHASLL GLSQQLOPEG HHWETQQIPS  
 LSPSQPWQRL LLRFKILRSL QAFVAVAAARV FAHGAATLSP HHHHHH.

Formulation IL23 protein solution (1mg/ml) contains PBS (pH7.4) and 10% glycerol.

### Introduction

IL23 is composed of a subunit of the heterodimeric cytokine IL23 and the p40 subunit of interleukin 12 (IL12B). Interleukin-23 (IL-23) belongs to the IL-12 family and is produced by antigen presenting cells. IL-23 using IL12RB1 and IL-23R (specific for IL-23) can activate STAT and NF- $\kappa$ B pathways and stimulate the production of interferon-gamma. ). IL-23 is known to take a vital part in the inflammation process and is associated with auto immune diseases. However, unlike IL12, which acts primarily on naive CD4(+) T

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

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cells, IL23 preferentially acts on memory CD4(+) T cells.

### Stability

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

Recombinant Human Interleukin-23 produced in Sf9 Baculovirus cells is a glycosylated heterodimer composed of 2 disulfide-linked subunits. A p19 subunit which is unique to IL23 and a p40 subunit which is shared with IL12. The p19 subunit/IL23A (20-189aa, total of 176 aa, MW 19.5kDa) and p40 subunit /IL12B (23-328aa, total of 306 aa, MW 34.6kDa), the total predicted molecular mass of 54.1kDa (Molecular weight on SDS-PAGE will appear higher). IL23 is fused to a 6 aa His-Tag at C-terminus and purified by proprietary chromatographic techniques.

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