

Product Data Sheet

Product Name: IL12 Mouse, Sf9
 Cat. No.: GP20555
 Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Interleukin 12 (subunit beta/alpha); IL12b/IL12a; Il-12b/Il-12a; IL-12p40/Il-12p35; Il12p40/Il12p35; p40/p35; Sf9.		
Amino Acid Sequence	<p>IL12B(p40)MWELEKDVYV VEVDWTPDAP GETVNLTCDT PEEDDITWTS DQRHGVIGSG KTLTITVKEF LDAGQYTCHK GGETLSHSHL LLHKKENGIW STEILKNFKN KTFKCEAPN YSGRFTCSWL VQRNMDLKFN IKSSSSSPDS RAVTCGMASL SAEKVTLDQR DYEKYSVSCQ EDVTCPTAEETLPIELALEA RQQNKYENYS TSFFIRDIK PDPPKNLQMK PLKNSQVEVS WEYPDSWSTP HSYFSLKFFV RIQRKKEKMK ETEEGCNQKG AFLVEKTSTE VQCKGGNVCV QAQDRYYNSS CSKWACVPCR VRSIL12A(p35)RVIPVSGPAR CLSQSRNLLK TTDDMVKTAR EKLKHYSCTA EDIDHEDITR DQTSTLKTCL PLELHKNEC LATRETSSTT RGSCLPQKT SLMMLTCLGS IYEDLKMYQT EFQAINAALQ NHHHQIILD KGMLVAIDEL MQSLNHNGET LRQKPPVGEA DPYRVKMKLC ILLHAFSTRVVTINRVMGYL SSAHHHHHH.</p>		
Formulation	IL12 protein solution (0.5mg/ml) contains phosphate buffered saline (pH7.4) and 10% glycerol.		

Introduction

interleukin 12 subunit beta/alpha or IL12b/IL12a is a growth factor cytokine which increases the lytic activity of NK/lymphokine-activated killer cells, activated T and NK cells and prompt IFN-gamma production (through resting PBMC). IL12b/IL12a is a crucial part to the process of cellular-immunity and activates the differentiation of Th1 cells originates from the precursor T helper cells. The protein is linked to IL23A and creates the IL-23 interleukin, by that, the autoimmune inflammation is induced and autoimmune inflammatory diseases and tumorigenesis are being affected.

Stability

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

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Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Please avoid freeze thaw cycles.

Background

IL12 Mouse Recombinant produced in a baculovirus expression system is a glycosylated disulfide linked (through cysteines in bold) heterodimer comprised of IL12A (23-335aa, total of 319 aa, MW 35.7kDa) and IL12B (23-215aa, total of 199 aa, MW 22.5kDa), having a total predicted molecular mass of 58.3kDa (Molecular weight on SDS-PAGE will appear higher). IL12A is fused to a 6 amino acid His-Tag at C-terminus and purified by proprietary chromatographic techniques.

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