

Datasheet for ABIN7596302

IL12 Protein (His tag)



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Overview

Quantity:	50 µg
Target:	IL12
Origin:	Mouse
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This IL12 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Activity Assay (AcA)

Product Details

Sequence:	IL12B(p40), MWELEKDYYV VEVDWTPDAP GETVNLTCDT PEEDDITWTS DQRHGVIGSG KTLTITVKEF LDAGQYTCHK GGETLSHSHL LLHKKENGIW STEILKNFKN KTLKCEAPN YSGRFTCSWL VQRNMDLKFN IKSSSSSPDS RAVTCGMASL SAEKVTLQQR DYKYSVSCQ EDVTCPTAEE TLPIELALEA RQQNKYENYS TSFFIRDIK PDPPKNLQMK PLKNSQVEVS WEYPDSWSTP HSYFSLKFFV RIQRKKEKMK ETEEGCNQKG AFLVEKTSTE VQCKGGNVCV QAQDRYYNSS CSKWACVPCR VRS, IL12A(p35), RVIPVSGPAR CLSQSRNLLK TTDDMVKTAR EKLKHYSCTA EDIDHEDITR DQTSTLKTCL PLELHKNESE LATRETSSTT RGSCLPPQKT SLMMTLCLGS IYEDLKMYQT EFQAINAALQ NHNHQQIILD KGMLVAIDEL MQLNHNGET LRQKPPVGEA DPYRVKMKLC ILLHAFSTRV VTINRVMGYL SSA
Purity:	> 95% by SDS-PAGE
Endotoxin Level:	< 1 EU per 1µg of protein (determined by LAL method)

Product Details

Biological Activity Comment: The activity is determined by the IFN-g ELISA in a using NK-92 human natural killer cells. The ED50 for this effect is less or equal to 10ng/ml.

Target Details

Target:	IL12
Alternative Name:	IL-12 p70 (IL12 Products)
Background:	IL12b/IL12a, also known as interleukin 12 (subunit beta/alpha), is a cytokine that can act as a growth factor for activated T and NK cells, enhance the lytic activity of NK/lymphokine-activated killer cells, and stimulate the production of IFN-gamma by resting PBMC. It is a key mediator of cellular-immunity and induces the differentiation of Th1 cells from precursor T helper cells. As it is associated with IL23A to form the IL-23 interleukin, it induces autoimmune inflammation and is responsible for autoimmune inflammatory diseases and may be important for tumorigenesis. Recombinant mouse IL12b/IL12a protein, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Molecular Weight:	35.7 kDa (p40, 313aa), 22.5 kDa (p35, 199aa),The heterodimeric IL12 has a predicted Molecular weight of 58.3 kDa (512aa).,Molecular weight on SDS-PAGE will appear higher
Pathways:	JAK-STAT Signaling , TLR Signaling , Cellular Response to Molecule of Bacterial Origin , Regulation of Leukocyte Mediated Immunity , Positive Regulation of Immune Effector Process , Activated T Cell Proliferation , Cancer Immune Checkpoints , Inflammasome

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.5 mg/mL
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Can be stored at +2°C to +8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.