

CHASELECTION**Recombinant Human IL 23 , Tag Free**

货号(Catalog Number): CY121FXXXX(L)

别名(synonym): IL- 23 p19/IL- 12 p40; IL23; IL- 23;
IL- 23P19/IL- 12P40来源(Source): Human embryonic kidney cell ,
HEK293 -derived Human IL- 23 protein**蛋白结构 (Structure):**

该蛋白不含标签

基因 ID: p40 (P29460) & P19 (AAG37232)

氨基酸序列

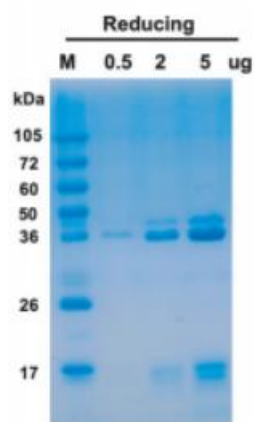
p40(Ile23 -ser328) & p19 [Arg20 - pro 189)

分子量大小(MW)

36.5 KDa (p40) & 18.5 KDa (p19) .

纯度 (Purity)

≥ 95%, determined by SDS-PAGE

SDS-PAGE**内毒素含量 (Endotoxin)**

<0.010 EU per 1 ug of the protein by the LAL method

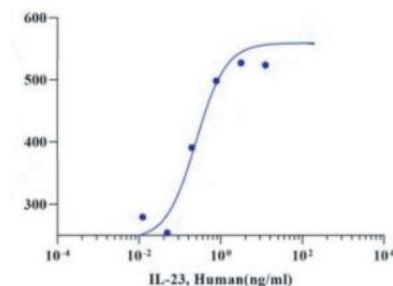
制剂(Formulation)

Solution protein.

Dissolved in sterile PBS buffer.

This solution can be diluted into other aqueous buffers.

Centrifuge the vial prior to opening.

活性检测 (Biological Activity)

Measured by its ability to induce IL-17 secretion by mouse splenocytes. The EC50 for this effect is 0.25 pg/mL.

储存与运输(Storage)

Avoid repeated freeze-thaw cycles.

It is recommended that the protein be aliquoted for optimal storage.

36 months from date of receipt, -20 to -70 ° C as supplied.

产品背景介绍 (Production)

Interleukin - 23 (IL- 23) is a heterodimeric cytokine belonging to the IL - 12 family , composed of two subunits: p19 , a unique subunit , and P40 , which is shared with IL- 12 . The IL- 23 cytokine plays a pivotal role in the immune system by driving the differentiation and expansion of T- helper 17 (Th17) cells , a subset of CD4+ T Cells known for their production of the pro - inflammatory cytokine IL- 17 . Through its influence on Th17 cells , IL- 23 is crucial in mediating inflammatory responses and has been implicated in the pathogenesis of several chronic inflammatory and autoimmune diseases , including psoriasis , rheumatoid arthritis , and inflammatory bowel disease (IBD) .

IL- 23 signals through a receptor complex composed of the IL- 23R Subunit and the IL- 12Rβ1 subunit. upon binding to its receptor, IL- 23 activates the JAK-STAT Signaling pathway , particularly STAT3 , which is critical for the transcription of genes involved in inflammation and immune regulation . unlike IL- 12 , which promotes Th1 cell differentiation and is involved in the immune response against intracellular pathogens , IL- 23 is more closely associated with extracellular pathogen defense and



chronic inflammation .

The discovery of IL-23 has led to significant advances in understanding immune regulation and inflammation . It has also spurred the development of therapeutic agents targeting the IL- 23 pathway , such as monoclonal antibodies that neutralize IL- 23 or its receptor, providing effective treatments for conditions like psoriasis and crohn ' S disease

