Recombinant Human IL-23/IL-12B&IL-23A Protein

Catalog No.: RP01160

Sequence Information

Species	Gene ID
Human	3593&51561

Swiss Prot	Tags
P29460&Q9NPF7	No tag(IL12B) &N-his(IL23A)

Synonyms

IL-23 p19/IL-12 p40,IL23,SGRF ,IL-23 alpha & IL-12 beta

Product Information

Source	Purification
HEK293 cells	≥ 95 % as determined by SDS-PAGE.

Calculated MW	Observed MW
19.50 kDa(IL-12A), 34.71 kDa (IL-12B)	20 kDa(IL-23A), 45-50 kDa(IL-12B)

Endotoxin

< 0.1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.Contact us for customized product form or formulation.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

Basic Information

Description

Active Recombinant Human IL-12B&IL-23A Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ile23-Ser328&Arg20-Pro189) of human IL-23 (Accession #NP_002178.2 /NP_057668.1) fused with a 6×His tag at the N-terminus(IL23A).

Activity

1.Measured by its binding ability in a functional ELISA.Immobilized Human IL-12B&IL-23A at 5μg/mL (100 μL/well) can bind Human IL23R with a linear range of 4-135 ng/ml.
2.Measured by its ability to induce IL-17 secretion by mouse splenocytes. The ED_{50} for this effect is 21.23-84.94 ng/mL, corresponding to a specific activity of 1.17×10^4~4.71×10^4 units/mg.

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20℃

Operational Notes

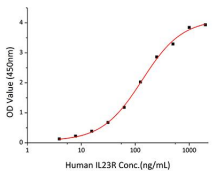
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

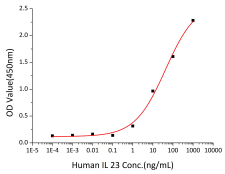
400-999-6126
cn.market@abclonal.com.cn
www.abclonal.com.cn

For research use only. Not for therapeutic or diagnostic purposes.
Please visit http://abclonal.com for a complete listing of recommended products.

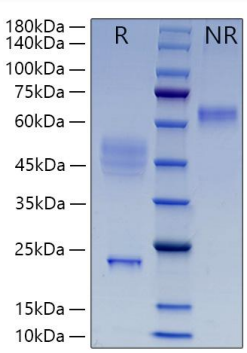
Validation Data



Immobilized Human IL-12B&IL-23A at 5μg/mL (100 μL/well) can bind Human IL23R with a linear range of 4-135 ng/mL.



Recombinant Human IL-23/IL-12B&IL-23A induce IL-17 secretion by mouse splenocytes. The ED_{50} for this effect is 21.23-84.94 ng/mL, corresponding to a specific activity of 1.17×10^4~4.71×10^4 units/mg.



Recombinant Human IL-23/IL-12B&IL-23A Protein was determined by SDS-PAGE under reducing (R) and non-reducing (NR) conditions.