Data Sheet (Cat.No.TMPY-03526)

TargetMol

IL-23 Protein, Mouse, Recombinant (His)

General Information

Synonyms:	IL-23;p19
Protein Construction:	A DNA sequence encoding the mouse IL23A (Q9EQ14) (Met1-Ala196) was fused with a polyhistidine tag at the C-terminus, constructed the plasmid 1; A DNA sequence encoding mouse IL12B (P43432) (Met1-Ser335) was fused with a polyhistidine tag at the C-terminus, constructed the plasmid 2. The two plasmids were co-expressed and the mouse IL23 heterodimer was purified. Predicted N terminal: Val 22 & Met 23
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	Q9EQ14&P43432
Molecular Weight:	58.3 kDa (predicted); 47,45 and 26 kDa (reducing conditions)

QC Testing

Biological Activity:	1. Immobilized Human IL23 Receptor hFc at 2 μg/ml (100 μl/well) can bind Mouse IL-23 His, the EC50 of Mouse IL-23 His is 50-250 ng/mL. 2. Measured by its ability to induce IL17 secretion by mouse splenocytes. The ED50 for this effect is 0.05-1 ng/mL.
Purity:	> 95 % as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

Reconstituted with sterile deionized water to 0.25 mg/mL.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Reference

Li X, Zhang F, Sun L, et al.Single-Cell RNA Sequencing Identifies WARS1+ Mesenchymal Stem Cells with Enhanced Immunomodulatory Capacity and Improved Therapeutic Efficacy.The Journal of Immunology.2024

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