

Recombinant Mouse IL-19 Protein

Catalog No.: RP01890

Sequence Information

Species **Gene ID**
Mouse 329244

Swiss Prot **Tags**
Q8CJ70 C-His

Synonyms

IL-10C; IL19; IL-19; interleukin 19;
MDA1; melanoma differentiation
associated protein-like protein; NG.
1Melanoma differentiation-
associated protein-like protein;
ZMDA1interleukin-19

Product Information

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

Calculated MW **Observed MW**
18.45 kDa 25-53 kDa

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.

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 stabilizer
(e.g. 0.1% BSA, 5% HSA, 10% FBS
or 5% Trehalose), and aliquot the
reconstituted protein solution to
minimize free-thaw cycles.

Background

Interleukin 19 (IL-19) is a member of the IL-10 family of cytokines. The IL-10 family is a class II alpha-helical collection of cytokines that contains two groups, a viral homolog and a cellular homolog group. Within the cellular homolog group, there are two additional groupings, one which uses IL-10 R2 as a signal transducing receptor (IL-10, IL-22 and IL-26), and one which uses IL-20 R2 as a signal transducing receptor (IL-19, IL-20 and IL-24). Mouse IL-19 is synthesized as a 176 amino acid (aa) precursor that contains a 24 aa signal sequence and a 152 aa mature region. Based on human studies, it is expected to be secreted as a glycosylated monomer, 35 - 45 kDa in size. IL-19 is unusual in that it contains seven amphipathic helices. Mature mouse IL-19 shares 69% aa sequence identity with the mature human IL-19, and 85% and 68% aa identity to unpublished Genbank sequences for rat and canine IL-19, respectively. Although mouse IL-19 is active on human cells, human IL-19 is not active on mouse cells. IL-19 expression is limited to activated keratinocytes and monocytes, with a possible contribution from B cells. IL-19 binds a receptor complex consisting of the IL-20 receptor alpha (also known as IL-20 R1) and the IL-20 receptor beta (IL-20 R2). This receptor complex is also shared by IL-20 and IL-24. Notably, IL-19 is reported to actually bind to IL-20 R2, which is generally considered to be only the signal transducing receptor subunit. Functionally, it has been reported that IL-19 both will and will not induce IL-6 and TNF production by monocytes. It does, however, seem to drive T-helper cell differentiation towards a Th2 response, inducing both IL-10 and production of itself.

Basic Information

Description

Recombinant Mouse IL-19 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Leu25-Ala176) of Mouse IL-19 (Accession #NP_001009940.1) fused with a His tag at the C-terminus.

Activity

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°C

Operational Notes

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

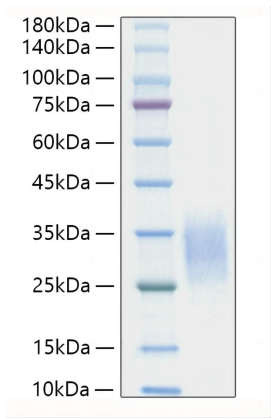
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Validation Data



Recombinant Mouse IL-19 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.