

Recombinant Mouse Flt3 ligand protein (His Tag)

Catalog Number: Eg0677

Basic Information

Species:
Mouse

Purity:
>90 %, SDS-PAGE

Tag:
His Tag

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/ µg protein, LAL method

Source:

CHO-derived Mouse Flt3 ligand protein Gly27-Arg188 (Accession# P49772-1) with a His tag at the C-terminus.

GeneID:

14256

Accession:

P49772-1

Predicted Molecular Mass:

19.2 kDa

SDS-PAGE:

17-25 kDa, reducing (R) conditions

Formulation:

Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

Flt-3 Ligand, also known as FLT3L, is a cytokine that is of paramount importance in the proliferation of primitive hematopoietic progenitors. By acting on its receptor Flt-3 (CD135) and synergizing with other cytokines, FLT3L plays a pivotal role in promoting myeloid and lymphoid progenitors proliferation and differentiation. Besides regulating the development of immune cells during steady-state conditions, FLT3L levels are raised upon inflammation. For example, increased serum levels of FLT3L have been observed during malaria in mice. Previous studies have shown that mice lacking FLT3L have deficient hematopoiesis function, resulting in reduced numbers of hematopoietic progenitor cells, dendritic cells, and natural killer cells.

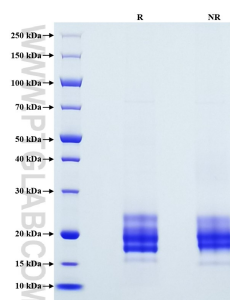
References

1. Solanilla A, et al. (2000). Leukemia. 14(1): 153-162
2. Ramos MI, et al. (2014). Autoimmun Rev. 13(2):117-124
3. Pierre Guermonprez, et al. (2013). Nat Med. 19(6): 730-738
4. Sara M. Parigi, et al. (2018). Scientific Reports. 8: 154
5. McKenna HJ, et al. (2000). Blood. 95(11): 3489-3497.

Synonyms

Flt3lg, Flt3 ligand, Flt3L, Fms-related tyrosine kinase 3 ligand, Ly72L

Selected Validation Data



Purity of Recombinant Mouse Flt3 ligand was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact

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