

Recombinant Human

FLT3 Ligand (FMS-Related Tyrosine Kinase 3 Ligand)

Product Description

- Endotoxin-free
- Animal-derived product free
- Available in Bulk
- Lyophilized and Carrier Free (CF)
- Authentic Glycosylation

Xeno-free FLT3 Ligand is expressed from human 293 cells as a monomeric glycoprotein with an apparent molecular mass of 24 to 30 kDa. This cytokine is produced in a serum-free, chemically defined media. The molecular mass is a narrower range than reported when this cytokine is expressed in insect Sf21 cells (17 to 30 kDa), emphasizing the difference in glycosylation in different expression systems. FLT3 Ligand is a growth factor that regulates proliferation of early hematopoietic cells. FLT3 Ligand binds to cells expressing the tyrosine kinase receptor FLT3. FLT3 Ligand by itself does not stimulate proliferation of early hematopoietic cells, but synergizes with other CSFs and interleukins to induce growth and differentiation.

Typical Specifications

Species	Human
Expression	HEK293 Cell Expressed
Activity	Typically ≤ 0.8 ng/mL EC ₅₀
Purity	>95%
Endotoxin	<1 EU/ μ g
Molecular Mass	24 to 30 kDa, monomer, glycosylated
Formulation	1x PBS

Purity Confirmation

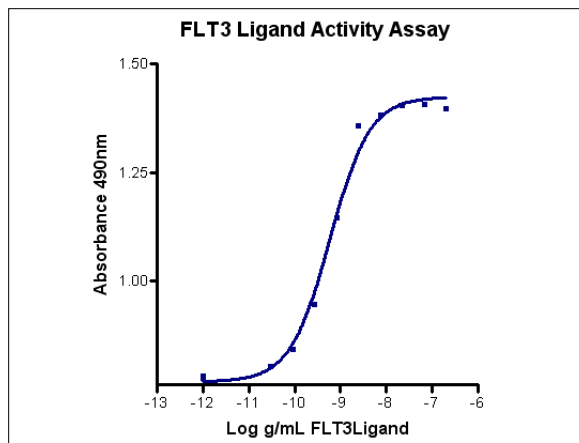
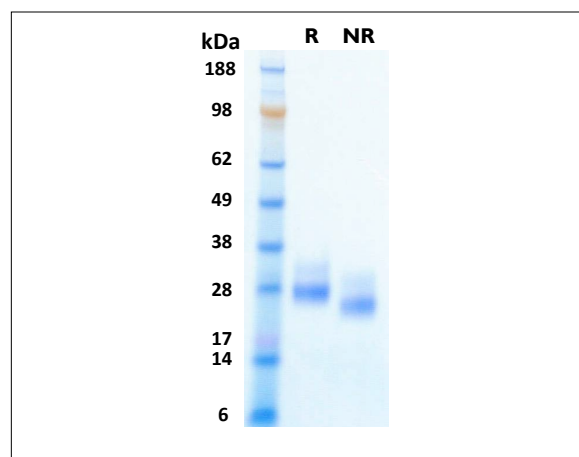
The protein was resolved by SDS-polyacrylamide gel electrophoresis and the gel was stained with Coomassie blue.

Activity Assay

The activity was determined by the dose-dependent stimulation of the proliferation of the human acute myeloid leukemia cell line OCI-AML5.



All HumaXpress[®] HumanKine[™] cytokines are animal-component-free and Xeno-free[™]



Reconstitution Buffer

Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile water containing 0.1% endotoxin-free recombinant human serum albumin (HSA).

Limited Use and Restrictions Unless otherwise stated in our catalog or other company documentation accompanying the products sold by HumanZyme Inc. are intended for research use only and are not to be used for any other purpose, which includes but is not limited to, unauthorized commercial uses, including resale or use in manufacture, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses or any type of consumption or application to humans or animals.