

## Product Information

### **HumanKine™ FLT3 Ligand, human recombinant, expressed in HEK 293 cells**

Catalog Number **H5416**

Storage Temperature  $-20^{\circ}\text{C}$

Synonym: FL

#### **Product Description**

HumanKine™ FLT3 Ligand is expressed in human 293 cells as a glycosylated monomer with an apparent molecular mass of 24–30 kDa. Production in human 293 cells offers authentic glycosylation. Glycosylation contributes to stability in cell growth media and other applications

FLT3 ligand is a hematopoietic cytokine that regulates the proliferation of early hematopoietic cells. It has been shown to synergize with a variety of cytokines to stimulate the growth and differentiation of early hematopoietic cells. The FLT3 ligand also stimulates the expansion of monocytes and immature dendritic cells, and induces early B cell lineage differentiation and NK cell growth.

This product is lyophilized from a PBS solution.

$\text{ED}_{50}$ :  $\leq 1.6 \text{ ng/mL}$

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

Purity:  $\geq 95\%$

Endotoxin level:  $\leq 1 \text{ EU}/\mu\text{g}$

#### **Precautions and Disclaimer**

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

#### **Preparation Instructions**

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

#### **Storage/Stability**

Store the product at  $-20^{\circ}\text{C}$ . The lyophilized product remains active for one year at  $-20^{\circ}\text{C}$ .

Upon reconstitution, the cytokine can be stored at  $2-8^{\circ}\text{C}$  for short term only, or at  $-20^{\circ}\text{C}$  to  $-80^{\circ}\text{C}$  in aliquots for long term. Avoid repeated freeze-thaw cycles.

#### **References**

1. Meyer, C. et al., Leuk. Lymph., **32**, 577-581 (1999).
2. Drexler, H. et al., Growth Factors, **22**, 71-73 (2004).

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