

PRODUCT DATA SHEET

Product: Fas Ligand, Soluble Human Recombinant (with cross-linker)

Cat. No.: FL-103 (5 µg)

Synonyms:

APO-1L, soluble; CD95L, soluble; CD178, soluble; TNFSF 6, soluble

Product:

Purified soluble human recombinant Fas Ligand with cross-linker.

Recombinant Protein:

The extracellular domain of human FasL (aa 103-281) is fused at the N-terminus to a linker peptide (26 aa) and a FLAG®-tag. Glycosylation of recombinant human sFasL is similar to natural human FasL. Produced in HEK 293 cells.

Molecular Weight:

~32 kDa (non-glycosylated), ~35 kDa (glycosylated)

Species Reactivity:

Binds to human, mouse and rat Fas (CD95; APO-1). Others not tested.

Purity:

≥95% as determined by SDS-PAGE. Endotoxin content is <0.1 EU/µg purified protein as determined by LAL test.

Format:

Provided as a lyophilized powder. Contains PBS.

Protocol:

Reconstitute in 50 µL of sterile water (makes a 0.1 mg/mL solution in PBS). Subsequent dilutions should be made with cell culture medium containing 5% fetal calf serum (FCS).

Storage:

Store at -20°C. Once rehydrated, it is recommended to prepare appropriate aliquots and to store at -20°C. Avoid repeated freezing and thawing to maintain optimum activity.

Note:

Results using FL-103 may differ from those obtained with agonistic antibodies.

Applications:

- Soluble FasL exerts its biological activity at a concentration range of 1-5 ng/mL on A20 B lymphoma cells. ED₅₀ is 1 ng/mL on A20 cells. Does not require a separate enhancer for biological activity. Compared to FL-101, there is a small change in the linker sequence which allows formation of flexible, non-covalent bonds when bound to the Fas receptor on the cell surface.

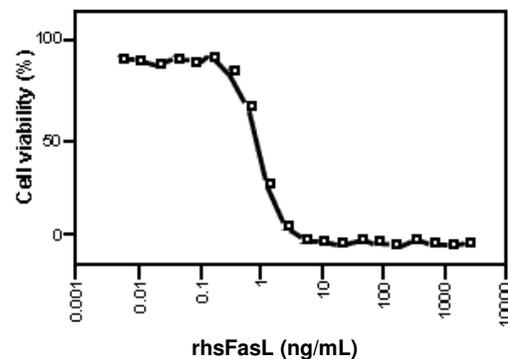


Figure: Induction of apoptosis in A20 B lymphoma cells. FL-103 exerts its biological activity in a concentration range of 1 - 5 ng/mL.

Method: Mouse A20 B lymphoma cells (50,000 cells in 100 µL DMEM medium containing 5% FCS) were incubated with various concentrations of FL-103 for 4 hours at 37°C in a 96 well plate. (Increased incubation times, e.g. 16 hours, will result in increased cell death). Concentrations of FL-103 required to kill cells may vary depending on cell type studied. Cell viability can be determined using a commercial cell proliferation assay kit.

The optimal dilution for a specific application should be determined by the researcher.

Limitations:

For *in vitro* research use only. Not for use in diagnostics or in humans.

Warranty:

No warranties, expressed or implied, are made regarding the use of this product. KAMIYA BIOMEDICAL COMPANY is not liable for any damage, personal injury, or economic loss caused by this product.