

Recombinant Human FAS Ligand (rh FASLG / CD178)

Synonyms: TNFSF6, CD95Ligand, Apoptosis antigen ligand

Introduction: The type II transmembrane protein FASLG is a member of the tumor necrosis factor (TNF) superfamily. A fas ligand/receptor interaction has a significant part in the regulation of the immune system and the advancement of cancer. FASLG is expressed on the activated T cell surface as a nondisulfidelinked homotrimer. FASLG binding to Fas/CD95/TNFRSF6 on a nearby cell prompts apoptosis in the FAS expressing cell. FASLG is released from the cell surface by metalloproteinases as a soluble molecule that stays trimeric and is able to bind with FAS, but its capability to activate apoptosis is radically reduced. In addition, FASLG binds to DcR3 - a soluble trap receptor with no signal transduction capabilities. Flawed FAS-mediated apoptosis causes oncogenesis in addition to drug resistance in existing tumors. Constitutive expression of FASLG in a variety of tumors enables their immune evasion.

Both mouse and human FASLG are active on mouse and human cells.

Description: Human recombinant FAS Ligand produced in HEK293 cells is a non-glycosylated, polypeptide chain containing 147 amino acids (134-281a.a). FASLG is fused to a 6 amino acid His-tag at N-terminus and purified by proprietary chromatographic techniques.

Source: HEK293 cells

Physical Appearance: Sterile filtered white colorless solution.

Formulation: The solution contains PBS

Stability: Although stable at 4°C for 1 week, should be stored below -18° C. Please prevent freeze-thaw cycles.

Purity:

Greater than 95.0% as determined by:

- (a) Analysis by SEC-HPLC.
- (b) Analysis by SDS-PAGE.

Biological Activity: FAS ligand is biologically active as determined by its ability to induce cytotoxicity in Jurkat cells in the absence of any cross-linking. The expected ED₅₀ < 10 ng/ml, corresponding to a specific activity of 1x10⁵ units/mg.

This material is offered for **research use only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

<i>small</i>	2 µg	Cat.N°	11344942
<i>medium</i>	10 µg	Cat.N°	11344943

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Gladiolenweg 2; 26169 Friesoythe; Germany
 phone:+49-(0)4491-400997, fax:+49-(0)4491-400998, info@immunotools.com
www.immunotools.com