
Product Data Sheet

Product Name: FASLG Human, HEK
 Cat. No.: GP20203
 Batch No.: 1

Product Data

Purity	>98%	Source	HEK293 cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Fas ligand (TNF superfamily; member 6); APT1LG1; FASL; TNFSF6; CD178; tumor necrosis factor (ligand) superfamily member 6; Apoptosis antigen ligand; Fas antigen ligand; APTL; CD95-L.		
Formulation	The FASLG solution (0.6mg/ml) contains 1xPBS.		

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.

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.

Stability

FASLG Human Recombinant although stable at 4°C for 1 week, should be stored below -

Caution: Product has not been fully validated for medical applications. For research use only.

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18°C . Please prevent freeze thaw cycles.

Background

Recombinant Human FAS Ligand produced in HEK293 cells is a 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.

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