



FAS Ligand, His tag, human recombinant (rHuFASL-His)

Catalog No: 97628
Lot No: XXXXX
Source: *E. coli*
Synonyms: Tumor necrosis factor ligand superfamily member 6, Apoptosis antigen ligand, APTL, CD95 ligand, CD95-L, Fas antigen ligand, Fas ligand, FasL, CD178, FASLG, APT1LG1, CD95L, TNFSF6, ALPS1B

Background

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

FASLG Human Recombinant produced in *E. coli* is a single, non-glycosylated polypeptide chain containing 173 amino acids (130-281 a.a.) and having a molecular mass of 19.6 kDa. ASLG is fused to a 21 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered colorless solution.

Formulation

FASLG protein solution (1 mg/ml) contains 20 mM Tris-HCl buffer (pH 8.0), 0.4 M urea and 10% glycerol.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Purity

Greater than 90% as determined by SDS-PAGE.

Amino Acid Sequence

MGSSHHHHHH SSSLVPRGSH MQIGHPSPPP EKKELRKVAH LTGKSNSRSM PLEWEDTYGI VLLSGVKYKK GGLVINETGL
YFVYSKVYFR GQSCNNLPLS HKVYMRNSKY PQDLVMMEGK MMSYCTTGQM WARSSYLGA V FNLTSADHLY VNVSELSLVN
FEESQTFEGL YKL

Usage

This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.

CONTACT US TODAY

BIOMOL GmbH • Kieler Straße 303a • 22525 Hamburg • Germany • info@biomol.de • www.biomol.de

Fon: +49 (0)40-853 260 0 • TOLL FREE IN GERMANY: Fon: 0800-246 66 51