
Product Data Sheet

Product Name: FAS Human
 Cat. No.: GP20200
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Tumor necrosis factor receptor superfamily member 6; Apo-1 antigen; Apoptosis-mediating surface antigen FAS; FASLG receptor; CD95; FAS; APT1; FAS1; APO-1; FASTM; ALPS1A; TNFRSF6.		
Amino Acid Sequence	MRLSSKSVNA QVTDINSKGL ELRKTVTTVE TQNLEGLHHD GQFCHKPCPP GERKARDCTV NGDEPDCVPC QEGKEYTDKA HFSSKCRRRCR LCDEGHGLEV EINCTRTQNT KCRCKPNFFC NSTVCEHCDP CTKCEHGIK ECTLTSNTKC KEEGSRS.		
Solubility	It is recommended to reconstitute the lyophilized FAS in sterile 18M-cm H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	FAS protein was lyophilized from a 0.2µm filtered concentrated solution in 16 ⁺ PBS, pH 7.4.		

Introduction

Fas and Fas Ligand (FasL) are members of the TNF superfamily and are type I and type II transmembrane proteins, respectively. Binding of FasL to Fas initiates apoptosis in Fas-bearing cells. The apoptosis mechanism involves the recruitment of pro-caspase 8 through an adaptor molecule named FADD followed by processing of the pro-enzyme to active forms. These active caspases subsequently cleave a variety of cellular substrates leading to the eventual cell death. sFasR is able to inhibit FasL-induced apoptosis by acting as a decoy receptor which serves as a sink for FasL. The full length Fas Receptor is a 319 a.a type I transmembrane protein, which contains a 157 a.a extracellular domain, a 17 a.a transmembrane domain, and 145 a.a cytoplasmic domain. The mature human Fas ECD shares 55%, 58%, a.a sequence identity with the mouse, rat, Fas, respectively.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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Biological Activity

The ED50 was determined by its ability to inhibit the cytotoxicity of Jurkat cells is between 10-15 µg/ml in the presence of 2ng/ml of hFasL.

Stability

Lyophilized FAS although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution FAS should be stored at 4°C between 2-7 days and for future use below -18°C . For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Background

sFas Receptor Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 157 amino acids and having a molecular mass of 17.6kDa. The FAS is purified by proprietary chromatographic techniques.

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