

Recombinant Human FAS, His-tagged

Cat. No. FAS-27896TH Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant fragment containing amino acids 157-320 of Human CD95, with a C-terminal His tag; MWt 18.56 kDa. P25445

Species Human

Source E.coli

ProteinLength 164 amino acids

Description

The protein encoded by this gene is a member of the TNF-receptor superfamily. This receptor contains a death domain. It has been shown to play a central role in the physiological regulation of programmed cell death, and has been implicated in the pathogenesis of various malignancies and diseases of the immune system. The interaction of this receptor with its ligand allows the formation of a death-inducing signaling complex that includes Fas-associated death domain protein (FADD), caspase 8, and caspase 10. The autoproteolytic processing of the caspases in the complex triggers a downstream caspase cascade, and leads to apoptosis. This receptor has been also shown to activate NF-kappaB, MAPK3/ERK1, and MAPK8/JNK, and is found to be involved in transducing the proliferating signals in normal diploid fibroblast and T cells. Several alternatively spliced transcript variants have been described, some of which are candidates for nonsense-mediated mRNA decay (NMD). The isoforms lacking the transmembrane domain may negatively regulate the apoptosis mediated by the full length isoform.

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Conjugation	HIS
Molecular Weight	18.560kDa
Tissue specificity	Isoform 1 and isoform 6 are expressed at equal levels in resting peripheral blood mononuclear cells. After activation there is an increase in isoform 1 and decrease in the levels of isoform 6.
Form	Liquid
Purity	>95% by SDS-PAGE
Storage buffer	pH: 8.00 Preservative: 1.36% Imidazole Constituents: 48% Urea, 0.32% Tris HCl, 0.078% Beta mercaptoethanol
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Sequence Similarities	Contains 1 death domain. Contains 3 TNFR-Cys repeats.

GENE INFORMATION

Gene Name	FAS Fas (TNF receptor superfamily, member 6) [Homo sapiens]
Official Symbol	FAS
Synonyms	FAS; Fas (TNF receptor superfamily, member 6); APT1, FAS1, TNFRSF6, tumor necrosis factor receptor superfamily, member 6; tumor necrosis factor receptor superfamily member 6; APO 1; CD95;
Gene ID	355

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mRNA Refseq	NM_000043
Protein Refseq	NP_000034
MIM	134637
Uniprot ID	P25445
Chromosome Location	10q24.1
Pathway	Activation of Pro-Caspase 8, organism-specific biosystem; Adipogenesis, organism-specific biosystem; African trypanosomiasis, organism-specific biosystem; African trypanosomiasis, conserved biosystem; Allograft rejection, organism-specific biosystem;
Function	binding; identical protein binding; kinase binding; protein binding; receptor activity;

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