# TRAIL Mouse Active Protein

## PRODUCT OVERVIEW

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| **Product Name** | TRAIL, Active Protein |
| **Full Product Name** | Recombinant Mouse TRAIL protein (N-His)(active) |
| **Product Gene Name** | TRAIL active protein |
| **Product Synonym Names** | IL36A; Interleukin-1 family member 6 (IL-1F6); FIL1epsilon (FIL1E); Interleukin-1epsilon (IL1E); Fi; Fil; Fil1; IL-1; IL-1H1; IL1RP2 |
| **Sequence** | MPSSGALKDL SFSQHFRMMV ICIVLLQVLL QAVSVAVTYM YFTNEMKQLQ DNYSKIGLAC FSKTDEDFWD STDGEILNRP CLQVKRQLYQ LIEEVTLRTF QDTISTVPEK QLSTPPLPRG GRPQKVAAHI TGITRRSNSA LIPISKDGKT LGQKIESWES SRKGHSFLNH VLFRNGELVI EQEGLYYIYS QTYFRFQEAE DASKMVSKDK VRTKQLVQYI YKYTSYPDPI VLMKSARNSC WSRDAEYGLY SIYQGGLFEL KKNDRIFVSV TNEHLMDLDQ EASFFGAFLI N |
| **Host** | E Coli |
| **Form/Format** | Lyophilized from sterile PBS, pH 7.4 |
| **Purity/Purification** | >98% as determined by SDS-PAGE. |
| **Preparation and Storage** | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 degree C. Reconstituted protein solution can be stored at 4-8 degree C for 2-7 days. Aliquots of reconstituted samples are stable at < -20 degree C for 3 months.<br>This product is provided as lyophilized powder which is shipped with ice packs. |
| **Molecular Weight** | 33,477 Da |
| **3D Structure** | ModBase 3D Structure for P50592 |
| **Active Protein Note** | Protein activity can be an ambiguous term. Please refer to the data sheet or inquire with Technical Support to determine the definition of activity for this product. |
| **Species** | Mouse |
| **Tag** | N-His |
| **Endotoxin** | <0.1 EU per 1 ug of the protein by the LAL method. |
| **Activity** | Measure by its ability to induce cytotoxicity in L929 cells in the presence of actinomycin D.The ED50 for this effect is <1 ng/mL. |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for TRAIL active protein** | MBS2569961 is an active protein targeting TRAIL. Also known as Recombinant Mouse TRAIL protein (N-His)(active). Host: E Coli. |
| **Other Notes** | Small volumes of TRAIL active protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TRAIL. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 6678431 |
| **NCBI GeneID** | 22035 |

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| **NCBI Accession #** | NP_033451.1 |
| **UniProt Primary Accession #** | P50592 |
| **UniProt Related Accession #** | P50592 |
| **GenBank Nucleotide #** | NM_009425.2 |
| **NCBI Official Full Name** | tumor necrosis factor ligand superfamily member 10 |
| **NCBI Official Synonym Full Names** | tumor necrosis factor (ligand) superfamily, member 10 |
| **NCBI Official Symbol** | Tnfsf10 |
| **NCBI Official Synonym Symbols** | TL2; Ly81; Trail; APO-2L; AI448571; A330042I21Rik |
| **UniProt Protein Name** | Tumor necrosis factor ligand superfamily member 10 |
| **UniProt Synonym Protein Names** | TNF-related apoptosis-inducing ligand; Protein TRAIL; CD_antigen: CD253 |
| **Protein Family** | Tumor necrosis factor ligand superfamily |
| **UniProt Gene Name** | Tnfsf10 |
| **UniProt Synonym Gene Names** | Trail; Protein TRAIL |
| **UniProt Entry Name** | TNF10_MOUSE |
| **NCBI Protein Information** | tumor necrosis factor ligand superfamily member 10; TNF-related apoptosis inducing ligand; TNF-related apoptosis-inducing ligand; TRAIL/APO2L |
| **UniProt Comments for TRAIL** | TRAIL: Cytokine that binds to TNFRSF10A/TRAILR1, TNFRSF10B/TRAILR2, TNFRSF10C/TRAILR3, TNFRSF10D/TRAILR4 and possibly also to TNFRSF11B/OPG. Induces apoptosis. Its activity may be modulated by binding to the decoy receptors TNFRSF10C/TRAILR3, TNFRSF10D/TRAILR4 and TNFRSF11B/OPG that cannot induce apoptosis. Homotrimer. Widespread; most predominant in spleen, lung and prostate. Belongs to the tumor necrosis factor family. 2 isoforms of the human protein are produced by alternative splicing.<br><br>Protein type: Membrane protein, integral; Cytokine<br><br>Cellular Component: extracellular space; membrane; integral to membrane<br><br>Molecular Function: cytokine activity; tumor necrosis factor receptor superfamily binding; tumor necrosis factor receptor binding<br><br>Biological Process: apoptosis; positive regulation of apoptosis; positive regulation of caspase activity; immune response |
| **Research Articles on TRAIL** | **1.** TRAIL-deficiency in ApoE(-/-) mice exacerbates nephropathy and insulin resistance |
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