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Datasheet for ABIN1344417 TRAIL Protein (AA 95-281, Extracellular Domain, Soluble)

3 Publications



Overview

| Quantity: | 10 µg | |
|--------------------------|---|--|
| Target: | TRAIL (TNFSF10) | |
| Protein Characteristics: | AA 95-281, Extracellular Domain, Soluble | |
| Origin: | Human | |
| Source: | Escherichia coli (E. coli) | |
| Protein Type: | Recombinant | |
| Biological Activity: | Active | |
| Application: | SDS-PAGE (SDS) | |
| Product Details | | |
| Specificity: | Binds to human TRAIL receptors 1-4 (TRAIL-R1 to TRAIL-R4), izTRAIL does not interact with the | |
| | apoptosis-inducing mouse TRAIL receptor (TRAIL-R). | |
| Cross-Reactivity: | Human | |
| Characteristics: | The extracellular domain of human TRAIL (aa 95-281) is fused at the N-terminus to an | |
| | isoleucine zipper motif. | |
| Purity: | >95 % (SDS-PAGE) | |
| Endotoxin Level: | <0.01EU/µg purified protein (LAL test, Lonza). | |
| Target Details | | |
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| Abstract: | TNFSF10 Products | |
|---------------------|--|--|
| | | |
| Background: | IZTRAIL is a newly available, highly active recombinant form of soluble human TRAIL. Due to a | |
| | trimerizing N-terminal isoleucine zipper (iz) motif the intrinsic trimerization of TRAIL, required | |
| | for apoptosis-inducing activity of TRAIL, is enhanced when compared to non-tagged soluble | |
| | human TRAIL (shTRAIL). Therefore, izTRAIL is a potent inducer of apoptosis in many human | |
| | cancer cells, but not normal human hepatocytes. In addition, the half-life of izTRAIL is about | |
| | eight-fold higher than the half-life of shTRAIL. These properties render izTRAIL highly suitable | |
| | for both, in vitro and in vivo use, particularly for studies in which investigators plan to transfer | |
| | their in vitro results into an in vivo system with human cancer cells in xenotransplant settings | |
| | examining susceptibility to TRAIL-induced apoptosis. | |
| Molecular Weight: | ~82kDa as stable trimers (determined by size exclusion chromatography) ~28kDa as monomer | |
| | (determined by SDS-PAGE) | |
| UniProt: | P50591 | |
| Pathways: | Apoptosis, Positive Regulation of Endopeptidase Activity | |
| Application Details | | |
| Application Notes: | Optimal working dilution should be determined by the investigator. | |
| Comment: | Induces apoptosis in vitro in different human cancer cell lines with an EC50 of 5-200ng/ml, | |
| | depending on the individual cell line used. Recombinant izTRAIL does not kill 4-day cultures of | |
| | primary human hepatocytes (PHH) at concentrations of at least up to 1μ g/ml (Ganten 2006). | |
| | Good bioavailability in vivo, shows no toxic effects in mice at doses of at least up to 500µg per | |
| | day (Wissink 2006). | |
| Restrictions: | For Research Use only | |
| Handling | | |
| Format: | Lyophilized | |
| Concentration: | Lot specific | |
| Buffer: | Lyophilized. Contains 20 mM TRIS-CI, 0.5M arginine-HCl, 100 mM NaCl, 0.02 % Tween 20. | |
| Storage: | 4 °C,-20 °C | |
| Storage Comment: | Short Term Storage: +4°C | |
| | Long Term Storage: -20°C | |

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| | Stable for at least 6 months after receipt when stored at -20°C. |
|-------------------|---|
| Expiry Date: | 6 months |
| Publications | |
| Product cited in: | Cao, Ye, Zhang, Zhu, Wang, Yao: "A multiplex model of combining gene-based, protein-based, |
| | and metabolite-based with positive and negative markers in urine for the early diagnosis of |
| | prostate cancer." in: The Prostate , Vol. 71, Issue 7, pp. 700-10, (2011) (PubMed). |
| | Schostak, Schwall, Poznanovi?, Groebe, Müller, Messinger, Miller, Krause, Pelzer, Horninger, |
| | Klocker, Hennenlotter, Feyerabend, Stenzl, Schrattenholz: "Annexin A3 in urine: a highly specific |
| | noninvasive marker for prostate cancer early detection." in: The Journal of urology, Vol. 181, |
| | Issue 1, pp. 343-53, (2008) (PubMed). |
| | Wozny, Schroer, Schwall, Poznanovi?, Stegmann, Dietz, Rogatsch, Schaefer, Huebl, Klocker, |
| | Schrattenholz, Cahill: "Differential radioactive quantification of protein abundance ratios |
| | between benign and malignant prostate tissues: cancer association of annexin A3." in: |
| | Proteomics, Vol. 7, Issue 2, pp. 313-22, (2007) (PubMed). |
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