Datasheet

Cat. No. P1274

# Recombinant Human soluble Tumor Necrosis Factor-Related Apoptosis-inducing Ligand Receptor-2/TNFRSF10B

## Information

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|---|---|
| Gene ID | 8795 |
| Accession # | O14763 |
| Alternate Names | soluble TRAIL Receptor-2, DR5, TNFRSF10B, KILER, TRICK2A, TRICKB |
| Source | Escherichia coli. |
| M.Wt | Approximately 14.8 kDa, a single non-glycosylated polypeptide chain containing 132 amino acids. |
| AA Sequence | ESALITQQDL APQQRAAPQQ KRSSPSEGLC PPGHHISEDG RDCISCKYGQ DYSTHWNDLL FCLRCTRCDS GEVELSPCTT TRNTVCQCEE GTFREEDSPE MCRKCRTGCP RGMVKVGDCT PWSDIECVHK ES |
| Appearance | Sterile Filtered White lyophilized (freeze-dried) powder. |
| Stability & Storage | Use a manual defrost freezer and avoid repeated freeze-thaw cycles<br>- 12 months from date of receipt, -20 to -70 °C as supplied<br>- 1 month, 2 to 8 °C under sterile conditions after reconstitution<br>- 3 months, -20 to -70 °C under sterile conditions after reconstitution |
| Formulation | Lyophilized from a 0.2 μm filtered concentrated solution in PBS, pH 7.4. |
| Reconstitution | We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions. |
| Biological Activity | Fully biologically active when compared to standard. rHusTRAIL-R2 reduced the production of LPS-induced TNF by its ability to neutralize endogenous TRAIL in fresh human PBMC. In this assay, endogenous TRAIL is induced during a 24 hour exposure to LPS (10 ng/mL) but in the presence of rHusTRAIL-R2, TRAIL-induced TNF is suppressed. |
| Shipping Condition | Gel pack. |
| Handling | Centrifuge the vial prior to opening. |
| Usage | For Research Use Only! Not to be used in humans. |

## Components and Storage

| Components | 10μg | 100μg | 500μg |
|---|---|---|---|
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## Quality Control

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|---|---|
| Purity | > 97 % by SDS-PAGE and HPLC analyses. |
| Endotoxin | Less than 1 EU/μg of rHusTRAIL-R2 as determined by LAL method. |

## Description

Tumor necrosis factor-related apoptosis-inducing ligand Receptor 2 (TRAIL-R2) is a cell-surface receptor involved in tumor necrosis factor-related apoptosis-inducing ligand (TRAIL)-induced cell-death signaling. The death ligand TRAIL bears high potential as a new anticancer agent, as binding to the death receptors TRAIL-R1 or TRAIL-R2 triggers apoptosis in most cancer cells. TRAIL-R2 has been shown to be associated with a decrease in the survival rates of breast cancer patients.

## Reference


1. Pordzik S, Petrovici K, Schmid C, et al. 2011. Hematology, 16: 341-50
2. Tseng HY, Chen LH, Ye Y, et al. 2012. Carcinogenesis, 33: 1871-81
3. Bae SI, Cheriyath V, Jacobs BS, et al. 2008. Oncogene, 27: 490-8
4. Camidge DR. 2008. Expert Opin Biol Ther, 8: 1167-76.



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