



## PRODUCT DATA SHEET

**Product:** TRAIL-R1, Human Recombinant Protein

**Cat. No.:** TR-004 (50 µg)

**Synonyms:**

DR4, TNFRSF 10A, CD261

**Chemical Name:**

Recombinant human TRAIL-R1:Fc

**Recombinant Protein:**

The extracellular domain (amino acids 24-239) of human TRAIL-R1 fused to the Fc portion of human IgG1. ~54 kDa (SDS-PAGE). Produced in HEK 293 cells.

**Background:**

TRAIL receptors are members of the TNF family of proteins. TRAIL-R1 (DR4) is a 50 kDa transmembrane protein containing 2 cysteine-rich repeats in the extracellular portion and a cytoplasmic motif called a 'death domain' (DD). Binding of TRAIL (APO-2L) to TRAIL-R1 can induce apoptosis. Other identified TRAIL receptors include TRAIL-R2 (DR5), which like TRAIL-R1 promotes apoptosis, and three receptors (TRAIL-R3, TRAIL-R4, and Osteoprotegerin) that are inhibitory.

**Format:**

50 µg lyophilized, purified protein. Dissolve in 50 µL sterile water to obtain a 1 mg/mL solution in PBS. Further dilutions should be made with medium containing 5% fetal calf serum or a carrier protein.

**Endotoxin Content:**

< 0.1 EU/µg purified protein (LAL).

**Purity:**

≥ 95% as determined by SDS-PAGE.

**Specificity:**

Binds human and mouse TRAIL. Other species not tested.

**Biological Activity:**

Inhibits human TRAIL-induced apoptosis in a concentration range of 2-10 µg/mL. Concentrations of rhTRAIL-R1:Fc required to inhibit may vary depending on the cell type studied and on the concentration of sTRAIL used to kill cells.

**Storage and Stability:**

Store unreconstituted product at -20°C. Stable at least 6 months after receipt when stored at -20°C. Avoid repeated freeze/thaw cycles. After reconstitution, aliquot and store at -20°C.

**Limitations:**

For *in vitro* research use only. Not for use in diagnostics or in humans.

**Warranty:**

No warranties, expressed or implied, are made regarding the use of this product. KAMIYA BIOMEDICAL COMPANY is not liable for any damage, personal injury, or economic loss caused by this product.