PRODUCT DATA SHEET

Product: TRAIL-R2, Human Recombinant Protein

***Cat. No.*: TR-005 (50 µg)**

Synonyms:
DR5, KILLER, TNFRSF 10B, CD262

Chemical Name:
Recombinant human TRAIL-R2:Fc

Recombinant Protein:
The extracellular domain (amino acids 52-212) of human TRAIL-R2 fused to the Fc portion of human IgG1. ~46 kDa (SDS-PAGE). Produced in HEK 293 cells.

Background:
TRAIL receptors are members of the TNF family of proteins. TRAIL-R2 (DR5) 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-R2 can induce apoptosis. Other identified TRAIL receptors include TRAIL-R1 (DR4), which like TRAIL-R2 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 soluble TRAIL-induced apoptosis in a concentration range of 0.5-10 µg/mL. Concentrations of rhTRAIL-R2:Fc required to inhibit may vary depending on the cell type studied and on the concentration of sTRAIL used to kill cells.

Applications and Suggested Dilutions:
- ELISA: Use at 1 µg/mL. (capture)

The optimal dilution for a specific application should be determined by the researcher.

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.

References:
1. Schneider, P. *et al.* (1997) Characterization of two receptors for TRAIL. *FEBS Lett.* **416**: 329-324.
2. Schneider, P. *et al.* (1997) TRAIL-receptors 1 (DR4) and 2 (DR5) signal FADD-dependent apoptosis and activate NF-kB. *Immunity* **7**: 831-836.

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.