



PRODUCT DATA SHEET

Product: TRAIL-R2, Human Recombinant Protein (FITC labeled)

Cat. No: TR-006 (50 µg)

Chemical Name:

Recombinant human TRAIL-R2:IgG(Fc)-FITC

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, reducing conditions).

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 purified protein labeled with FITC.

Production:

Produced in human embryo kidney cells.

Purification:

>95% as determined by SDS-PAGE

Specificity:

Interacts with TRAIL from humans. Other species not tested.

Applications:

- INHIBITION OF APOPTOSIS: rhTRAIL-R2:IgG(Fc) inhibits TRAIL mediated apoptosis at a concentration of 0.1-0.5 ng/ml.

Tested with human Jurkat lymphoma cells (5 X 10⁴ cells in DMEM, 5% FCS) incubated with 0.1 µg/ml rhTRAIL plus 2 µg/ml cross-linking antibody (Cat. No. TR-002), and increasing amounts of rhTRAIL-R2:IgG(Fc) fusion protein. Incubation was at 37°C for 16 hr. The concentration of rhTRAIL-R1:IgG(Fc) required to inhibit killing may vary depending on the cell

type studied and the concentration of TRAIL used to kill cells.

FITC-labeled TRAIL is designed for detection of cell-surface TRAIL by flow cytometry.

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

Storage and Stability:

store at +4°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-κB. *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.