

TECHNICAL DATA SHEET

# Recombinant Human sTRAIL Receptor 2 (Carrier-free)

Catalog Number: 21-7160

## RPx-Pro™ Recombinant Protein

### PRODUCT INFORMATION

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Recombinant Human sTRAIL Receptor 2 (Carrier-free)

#### DESCRIPTION

TRAIL Receptor 2 (DR5, TNFRSF10B, CD262, TRICK2) is a type I transmembrane protein belonging to the TNF receptor superfamily. It contains a cytoplasmic death domain and is one of the four receptors that bind TRAIL to initiate apoptosis. TRAIL R2 mediated apoptosis involves a signaling complex that includes FADD and caspases 8 and 10. TRAIL R2 expression can be induced by NF-kappaB.

#### MOLECULAR MASS

Recombinant Human sTRAIL Receptor 2 is a 14.9 kDa protein consisting of 133 amino acids that correspond to the cysteine-rich extracellular domain.

#### AMINO ACID SEQUENCE

MESALITQQD LAPQQRVAPQ QKRSSPSEGL CPPGHHISED GRDCISCKYG QDYSTHWNDL LFCLRCTRCD SGEVELSPCT TTRNTVCQCE  
EGTFREEDSP EMCRCRTGC PRGMVKVGDC TPWSDIECVH KES

#### SOURCE

E. coli

#### APPLICATIONS

Bioassay

#### PURITY

98 %

#### STORAGE

-20°C

#### PROTEIN CONTENT

Verified by UV Spectroscopy and/or SDS-PAGE gel.

#### ENDOTOXIN LEVEL

Endotoxin level is <0.1 ng/µg of protein (<1 EU/µg).

#### AUTHENTICITY

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

#### CROSS REACTIVITY

#### BIOACTIVITY

The ability to neutralize endogenous TRAIL in fresh human PBMC is measured through observing suppression of TRAIL-induced TNF production during a 24 hour exposure to 10 ng/ml of LPS.

#### RESEARCH AREAS

TNF Superfamily, Immune System, Cancer, Receptors

#### RECONSTITUTION

See Certificate of Analysis (COA) for lot specific reconstitution information.

#### REFERENCES

MacFarlane M. 2003. Toxicol Lett. 139(2-3): 89-97. Kroemer G, Galluzzi L and Brenner C. 2007. Physiol Rev. 87(1): 99-163. Walczak H, Degli-Esposti MA, Johnson RS, Smolak PJ, Waugh JY, Boiani N, Timour MS, Gerhart MJ, Schooley KA, Smith CA, et al. 1997. EMBO J. 16(17): 5386-5397. Shetty S, Gladden JB, Henson ES, Hu X, Villanueva J, Haney N and Gibson SB. 2002. Apoptosis. 7(5): 413-420.

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