

TECHNICAL DATA SHEET

Recombinant Mouse LIGHT (Carrier-free)

Catalog Number: 21-7156

RPx-Pro™ Recombinant Protein

PRODUCT INFORMATION

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Recombinant Mouse LIGHT (Carrier-free)

DESCRIPTION

LIGHT, also known as TNFSF14, CD258 and HVEM-L, is a type II transmembrane protein belonging to the TNF family of ligands. It is produced by activated T-cells and signals via the lymphotoxin beta receptor (LTbetaR) and the herpes virus entry mediator (HVEM). It is a potent initiator of T cell co-stimulation signals that play a role in tumor and allograft rejection. LIGHT is reported to work together with IFN-g to activate caspase activity, resulting in cleavage of Bcl-2.

MOLECULAR MASS

Recombinant Mouse LIGHT consists of 183 amino acids from the extracellular domain and has a calculated molecular weight of 20.1 kDa.

AMINO ACID SEQUENCE

MRLHQRLGDI VAHLPDGGKG SWEKLIQDQR SHQANPAAHL TGANASLIGI GGPLLWETRL GLAFLRGLTY HDGALVTMEP GYYYYVYSKVQ
 LSGVGCPQGL ANGLPITHGL YKRTSRYPKE LELLVSRSP CGRANSSRVW WDSSFLGGVW HLEAGEEVV RVPGNRLVRP RDGTRSYFGA FMV

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

Human

BIOACTIVITY

Its cytotoxic effect, in the presence of human IFN-g, on human colon adenocarcinoma cells (HT-29) is determined.

RESEARCH AREAS

TNF Superfamily, Immune System, Apoptosis, Cancer, Inflammation

RECONSTITUTION

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

REFERENCES

Granger SW and Rickert S. 2003. Cytokine Growth Factor Rev. 14(3-4): 289-296. Chen MC, Hsu TL, Luh TY and Hsieh SL. 2000. J Biol Chem. 275(49): 38794-3801. Zhang MC, Liu HP, Demchik LL, Zhai YF and Yang DJ. 2004. Cell Res. 14(2): 117-124.

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