

LIGHT Murine E. coli

Product Data Sheet

Type: Recombinant
Source: E. coli
Species: Murine

Cat. No.:
RBG20087005 (5 µg)
RBG20087020 (20 µg)
RBG20087100 (100 µg)

Description

LIGHT belongs to the TNF family of ligands, and can signal through the herpes virus entry mediator type A receptor (HVEM, TNFRSF14), LTbetaR, or bind to a decoy receptor, DcR3. It is expressed in splenocytes, activated PBL, CD8+ tumor infiltrating lymphocytes, granulocytes, and monocytes. LIGHT has the ability to active NF- κ B, to co-stimulate the activation of lymphocytes and to induce apoptosis in certain human tumor cells. Recombinant Murine LIGHT is a 20.1 kDa protein containing 183 amino acid residues, comprising the TNF-homologous region of the LIGHT extracellular domain.

Research topic

Cytokines and chemokines and related molecules

Amino Acid Sequence

MRLHQRLGDI VAHLPDGGK G SWEKLIQDQR SHQANPAAHL TGANASLIGI GGPLLWETRL GLAFLRGLTY HDGALVTMEP
GYYVYSKVQ LSGVGCPOGL ANGLPITHGL YKRTSRYPKE LELLVSRSP CGRANSSRVW WDSFLLGGVV HLEAGEEVVV
RVPGNRLVRP RDGTRSYFGA FMV

Source

E. coli

Purity

98%

Biological Activity

Determined by its cytotoxic effect on HT-29 cells (human colon adenocarcinoma cells) in the presence of human IFN- γ .

Endotoxin

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

Reconstitution

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

Storage, Stability/Shelf Life

-20°C

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