LIGHT Human Hi-5 Insect cells

Product Data Sheet

Type: Recombinant
Source: Hi-5 Insect cells
Species: Human

Cat. No.:

RBG10206003	(3 µg)
RBG10206015	(15 µg)
RBG10206100	(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-?B, to co-stimulate the activation of lymphocytes and to induce apoptosis in certain human tumor cells. The human LIGHT gene encodes for a 240 amino acid type II transmembrane protein containing a 37 amino acid cytoplasmic domain, a 21 amino acid transmembrane domain, and a 182 amino acid extracellular domain. Recombinant Human LIGHT has a calculated mass of 19.3 kDa, containing 177 amino acid residues. Due to glycosylation, LIGHT migrates between 20.0-22.5 kDa by SDS-PAGE under non-reducing conditions.

Research topic

Cytokines and chemokines and related molecules

Amino Acid Sequence

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RLGEMVTRLP DGPAGSWEQL IQERRSHEVN PAAHLTGANS SLTGSGGPLL WETQLGLAFL RGLSYHDGAL VVTKAGYYYI
YSKVQLGGVG CPLGLASTIT HGLYKRTPRY PEELELLVSQ QSPCGRATSS SRVWWDSSFL GGVVHLEAGE KVVVRVLDER
LVRLRDGTRS YFGAFMV
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Source

Hi-5 Insect cells

Purity

95%

Biological Activity

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

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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