



## Recombinant Human LIGHT

20150227BB



**FOR RESEARCH ONLY! NOT FOR HUMAN USE!**

<b>Cat.-no.:</b>	<b>100-106S</b>
Size:	3 µg
Lot. No.:	According to product label

### Scientific Background

<b>Gene-ID (NCBI):</b>	8740
<b>Synonyms:</b>	TNFSF14, HVEM-L, LIGHT; tumor necrosis factor (ligand) superfamily, member 14

LIGHT belongs to the TNF family of ligands, and can signal through the herpes virus entry mediator type A receptor (HVEM, TNFRSF14), LTβR, or bind to a decoy receptor, DcR3. It is expressed in splenocytes, activated PBL, CD+8 tumor infiltrating lymphocytes, granulocytes, and monocytes. LIGHT has the ability to activate NFκB, to co-stimulate the activation of lymphocytes and to induce apoptosis in certain human tumor cells. 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.

### Sequence

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

### Database References

<b>Protein RefSeq:</b>	NP_003798.2
<b>Uniprot ID:</b>	O43557
<b>mRNA RefSeq:</b>	NM_003807.3

### Product Specifications

<b>Expressed in</b>	Insect cells
<b>Purity</b>	> 95% by SDS-PAGE & HPLC analyses
<b>Endotoxin level</b>	< 0.1 ng /µg of protein (<1EU/µg).
<b>Formulation</b>	lyophilized
<b>Length (aa):</b>	177
<b>MW:</b>	19.3 kDa

**Biological Activity:** Determined by its cytotoxic effect on HT-29 cells (human colon adenocarcinoma cells) in the presence of human IFN-gamma.



**AVOID REPEATED FREEZE AND THAW CYCLES!**