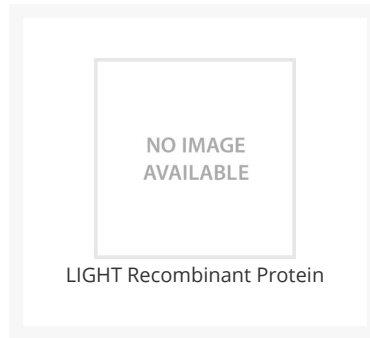




LIGHT Recombinant Protein

Cat. No.: 40-301



Ψ Specifications

SPECIES:	Human
SOURCE SPECIES:	High-5 Insect cells
SEQUENCE:	RLGEMVTRLP DGPAGSWEQL IQERRSHEVN PAAHLTGANS SLTGSGGPLL WETQLGLAFL RGLSYHDGAL VTKAGYYYI YSKVQLGGVG CPLGLASTIT HGLYKRTPRY PEELELLVSQ QSPCGRATSS SRVWWDSSFL GGVVHLEAGE KVVVRVLDER LVRLRDGTRS YFGAFMV
TESTED APPLICATIONS:	

Ψ Properties

PURITY:	Greater than 95% by SDS-PAGE gel and HPLC analyses. Endotoxin level is less than 0.1 ng per µg (1EU/µg).
PHYSICAL STATE:	Lyophilized
STORAGE CONDITIONS:	The lyophilized LIGHT recombinant protein is stable for at least 2 years from date of receipt at -20°C. Reconstituted LIGHT is stable for at least 3 months when stored in working aliquots with a carrier protein at -20°C. As with any protein, exposing LIGHT recombinant protein to repeated freeze / thaw cycles is not recommended. When working with proteins care should be taken to keep recombinant protein at a cool and stable temperature.

OFFICIAL SYMBOL:	TNFSF14
ALTERNATE NAMES:	LTg, TR2, CD258, HVEM, LIGHT, UNQ391/PRO726, Tumor necrosis factor ligand superfamily member 14, Herpes virus entry mediator ligand, HVEM-L
ACCESSION NO.:	NP_003798.2
PROTEIN GI NO.:	25952144
GENE ID:	8740

Background and References

BACKGROUND:	<p>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 active 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.</p>
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