CD40L/CD154/TRAP Protein, Rabbit (P. pastoris, His)

Cat. No.:	HY-P700554
Synonyms:	rHuCD40L; CD154; TRAP; TNFSF5; CD40LG; CD40-L
Species:	Rabbit
Source:	P. pastoris
Accession:	G1SKP7 (M113-L261)
Gene ID:	100358388
Molecular Weight:	18.2 kDa

PROPERTIES

AA Sequence	M Q K G D Q D P Q I A A H L I S E A S S K S S S V L Q W A K K G Y Y T M S N T L V T L E N G K Q L K V K R Q G F Y Y I Y A Q V T F C S N Q E P S S Q A P F I A S L C L K S S G G S E R I L L R A A N A R S S S K T C E Q Q S I H L G G V F E L Q A D A S V F V N V T D A S Q V N H G T G F T S F G L L K L
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	CD40L/CD154/TRAP Protein is a cytokine that functions as a ligand to CD40/TNFRSF5. It plays a crucial role in costimulating T-cell proliferation and cytokine production. Additionally, it is involved in immunoglobulin class switching. CD40L/CD154/TRAP Protein acts as a ligand for integrins, specifically ITGA5:ITGB1 and ITGAV:ITGB3. Activation of CD40-CD40LG signaling requires both integrins and the CD40 receptor, and this signaling pathway has cell-type dependent effects, including B-cell activation, NF-kappa-B signaling, and anti-apoptotic signaling.

Caution: Product has not been fully validated for medical applications. For research use only.

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