

Tumor necrosis factor ligand superfamily member 9 Recombinant Protein | TNFSF9 recombinant protein

Recombinant Human Tumor necrosis factor ligand superfamily member 9 protein

CATALOG # AAA113217	HOST E Coli
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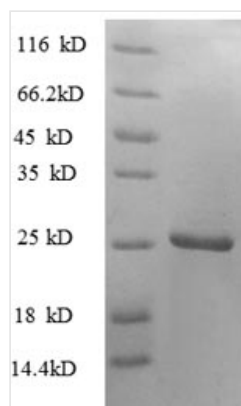
PRODUCT SYNONYMS

Tumor necrosis factor ligand superfamily member 9; Recombinant Human Tumor necrosis factor ligand superfamily member 9 protein; 4-1BB ligand receptor; CDw137; T-cell antigen 4-1BB homolog; T-cell antigen ILA; CD137; TNFSF9 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Liquid containing glycerol
Sequence Positions	52-254aa; Partial
Sequence	PWAVSGARAS PGSAASPRLR EGPELSPDDP AGLLDLRQGM FAQLVAQNV LIDGPLSWYS DPGLAGVSLT GGLSYKEDTK ELVVAKAGVY YVFFQLELRR VVAGEGSGSV SLALHLQPLR SAAGAAALAL TVDLPPASSE ARNSAFGFQG RLLHLSAGQR LGVHLHTEAR ARHAWQLTQG ATVLGLFRVT PEIPAGLPSP RSE
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for TNFSF9 recombinant protein	Receptor for TNFSF9/4-1BBL. Possibly active during T cell activation.
Product Categories/Family for TNFSF9 recombinant protein	Immunology

References

Molecular and biological characterization of human 4-1BB and its ligand.Alderson M.R., Smith C.A., Tough T.W., Davis-Smith T., Armitage R.J., Falk B., Roux E., Baker E., Sutherland G.R., Din W.S., Goodwin R.G.Eur. J. Immunol. 24:2219-2227(1994) A receptor induced by lymphocyte activation (ILA) a new member of the human nerve-growth-factor/tumor-necrosis-factor receptor family.Schwarz H., Tuckwell J., Lotz M.Gene 134:295-298(1993) Schwarz H.Characterization of human homologue of 4-1BB and its ligand.Zhou Z., Kim S., Hurtado J., Lee Z.H., Kim K.K., Pollok K.E., Kwon B.S.Immunol. Lett. 45:67-73(1995) NIEHS SNPs programThe DNA sequence and biological annotation of human chromosome 1.Gregory S.G., Barlow K.F., McLay K.E., Kaul R., Swarbreck D., Dunham A., Scott C.E., Howe K.L., Woodfine K., Spencer C.C.A., Jones M.C., Gillson C., Searle S., Zhou Y., Kokocinski F., McDonald L., Evans R., Phillips K., Atkinson A., Cooper R., Jones C., Hall R.E., Andrews T.D., Lloyd C., Ainscough R., Almeida J.P., Ambrose K.D., Anderson F., Andrew R.W., Ashwell R.I.S., Aubin K., Babbage A.K., Bagguley C.L., Bailey J., Beasley H., Bethel G., Bird C.P., Bray-Allen S., Brown J.Y., Brown A.J., Buckley D., Burton J., Bye J., Carder C., Chapman J.C., Clark S.Y., Clarke G., Clee C., Cobley V., Collier R.E., Corby N., Coville G.J., Davies J., Deadman R., Dunn M., Earthrowl M., Ellington A.G., Errington H., Frankish A., Frankland J., French L., Garner P., Garnett J., Gay L., Gori M.R.J., Gibson R., Gilby L.M., Gillett W., Glithero R.J., Grafham D.V., Griffiths C., Griffiths-Jones S., Grocock R., Hammond S., Harrison E.S.I., Hart E., Haugen E., Heath P.D., Holmes S., Holt K., Howden P.J., Hunt A.R., Hunt S.E., Hunter G., Isherwood J., James R., Johnson C., Johnson D., Joy A., Kay M., Kershaw J.K., Kibukawa M., Kimberley A.M., King A., Knights A.J., Lad H., Laird G., Lawlor S., Leongamornlert D.A., Lloyd D.M., Loveland J., Lovell J., Lush M.J., Lyne R., Martin S., Mashreghi-Mohammadi M., Matthews L., Matthews N.S.W., McLaren S., Milne S., Mistry S., Moore M.J.F., Nickerson T., O'Dell C.N., Oliver K., Palmeiri A., Palmer S.A., Parker A., Patel D., Pearce A.V., Peck A.I., Pelan S., Phelps K., Phillimore B.J., Plumb R., Rajan J., Raymond C., Rouse G., Saenphimmachak C., Sehra H.K., Sheridan E., Shownkeen R., Sims S., Skuce C.D., Smith M., Steward C., Subramanian S., Sycamore N., Tracey A., Tromans A., Van Helmond Z., Wall M., Wallis J.M., White S., Whitehead S.L., Wilkinson J.E., Willey D.L., Williams H., Wilming L., Wray P.W., Wu Z., Coulson A., Vaudin M., Sulston J.E., Durbin R.M., Hubbard T., Wooster R., Dunham I., Carter N.P., McVean G., Ross M.T., Harrow J., Olson M.V., Beck S., Rogers J., Bentley D.R.Nature 441:315-321(2006) Signal peptide prediction based on analysis of experimentally verified cleavage sites.Zhang Z., Henzel W.J.Protein Sci. 13:2819-2824(2004) 4-1BB and Ox40 are members of a tumor necrosis factor (TNF) -nerve growth factor receptor subfamily that bind TNF receptor-associated factors and activate nuclear factor kappaB.Arch R.H., Thompson C.B.Mol. Cell. Biol. 18:558-565(1998) CD28-independent, TRAF2-dependent costimulation of resting T cells by 4-1BB ligand.Saoulli K., Lee S.Y., Cannons J.L., Yeh W.C., Santana A., Goldstein M.D., Bangia N., DeBenedette M.A., Mak T.W., Choi Y., Watts T.H.J. Exp. Med. 187:1849-1862(1998) A novel leucine-rich repeat protein (LRR-1) potential involvement in 4-1BB-mediated signal transduction.Jang I.-K., Lee Z.-H., Kim H.-H., Hill J.M., Kim J.-D., Kwon B.S.Mol. Cells 12:304-312(2001) The consensus coding sequences of human breast and colorectal cancers.Sjoebloom T., Jones S., Wood L.D., Parsons D.W., Lin J., Barber T.D., Mandelker D., Leary R.J., Ptak J., Silliman N., Szabo S., Buckhaults P., Farrell C., Meeh P., Markowitz S.D., Willis J., Dawson D., Willson J.K.V., Gazdar A.F., Hartigan J., Wu L., Liu C., Parmigiani G., Park B.H., Bachman K.E., Papadopoulos N., Vogelstein B., Kinzler K.W., Velculescu V.E.Science 314:268-274(2006)

NCBI AND UNIPROT INFORMATION

NCBI GI #	4507609
NCBI GeneID	8744
NCBI Accession #	NP_003802.1
NCBI GenBank Nucleotide #	NM_003811.3
UniProt Accession #	P41273; Q2M3S2
Molecular Weight	25.3 kDa
NCBI Official Full Name	tumor necrosis factor ligand superfamily member 9
NCBI Official Synonym Full Names	tumor necrosis factor superfamily member 9
NCBI Official Symbol	TNFSF9
NCBI Official Synonym Symbols	CD137L; TNLG5A; 4-1BB-L
NCBI Protein Information	tumor necrosis factor ligand superfamily member 9
UniProt Protein Name	Tumor necrosis factor ligand superfamily member 9
UniProt Gene Name	TNFSF9

UniProt Synonym Gene Names	4-1BBL
UniProt Entry Name	TNFL9_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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