

LY6E Protein, Human, Recombinant (His & SUMO)

General Information

Synonyms:	SCA2;Ly-6E;Thymic shared antigen 1 (TSA-1);Lymphocyte antigen 6E;RIGE;Retinoic acid-induced gene E protein (RIG-E);Stem cell antigen 2 (SCA-2);TSA1;LY6E
Protein Construction:	21-101 aa
Species:	Human
Expression Host:	E. coli
Accession:	Q16553
Molecular Weight:	24.5 kDa (predicted)
AA Sequence:	LMCFSLNQKSNLYCLKPTICSDQDNYCVTVSASAGIGNLVTFGHLSLTKTSPACPIPEGVNVGVASMGISCCQ SFLCNFS

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

GPI-anchored cell surface protein that regulates T-lymphocytes proliferation, differentiation, and activation. Regulates the T-cell receptor (TCR) signaling by interacting with component CD3Z/CD247 at the plasma membrane, leading to CD3Z/CD247 phosphorylation modulation. Restricts the entry of human coronaviruses, including SARS-CoV, MERS-CoV and SARS-CoV-2, by interfering with spike protein-mediated membrane fusion. Plays also an essential role in placenta formation by acting as the main receptor for syncytin-A (SynA). Therefore,

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participates in the normal fusion of syncytiotrophoblast layer I (SynT-I) and in the proper morphogenesis of both fetal and maternal vasculatures within the placenta. May also act as a modulator of nicotinic acetylcholine receptors (nAChRs) activity.; (Microbial infection) Promotes entry, likely through an enhanced virus-cell fusion process, of various viruses including HIV-1, West Nile virus, dengue virus and Zika virus. In contrast, the paramyxovirus PIV5, which enters at the plasma membrane, does not require LY6E. Mechanistically, adopts a microtubule-like organization upon viral infection and enhances viral uncoating after endosomal escape.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481