

Lymphocyte antigen 6E/LY6E Protein, Mouse (P.pastoris, His, SUMO)

Cat. No.:	HY-P71830
Synonyms:	Ly6e; Ly67; Sca-2; Tsa-1Lymphocyte antigen 6E; Ly-6E; Stem cell antigen 2; Thymic shared antigen 1; TSA-1
Species:	Mouse
Source:	P. pastoris
Accession:	Q64253 (21L-102A)
Gene ID:	17069
Molecular Weight:	Approximately 24.8 kDa

PROPERTIES

AA Sequence	LMCFSCSTDQK NNINCLWPVS CQEKDHYCIT LSAAAGFGNV NLGYTLNKGK SPICPENNVN LNLGVASVNS YCCQSSF CNF SA
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against solution in Tris-based buffer, 50% glycerol.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O.
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	LY6E, a glycosylphosphatidylinositol (GPI)-anchored cell surface protein, intricately governs T-lymphocyte functions, including proliferation, differentiation, and activation. It exerts its regulatory influence on T-cell receptor (TCR) signaling by engaging with the CD3Z/CD247 component at the plasma membrane, thereby modulating the phosphorylation of CD3Z/CD247. Beyond its role in immune response modulation, LY6E exhibits antiviral activity by impeding the entry of murine coronavirus, specifically mouse hepatitis virus, through interference with spike protein-mediated membrane fusion. Additionally, LY6E plays a pivotal role in placenta formation, acting as the primary receptor for syncytin-A (SynA), thus contributing to the proper morphogenesis of both fetal and maternal vasculatures within the placenta. Notably, LY6E may function as a modulator of nicotinic acetylcholine receptors (nAChRs) activity, demonstrated by its interaction with CHRNA4 and its inhibitory effect on alpha-3:beta-4-containing nAChRs in vitro.
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Caution: Product has not been fully validated for medical applications. For research use only.

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