

LY6G6D Protein, Human (P.pastoris, His)

Cat. No.:	HY-P71751
Synonyms:	LY66D_HUMAN; Ly6g6d; Lymphocyte antigen 6 complex locus protein G6d; Megakaryocyte-enhanced gene transcript 1 protein; Protein Ly6-D
Species:	Human
Source:	P. pastoris
Accession:	O95868 (N20-S104)
Gene ID:	58530
Molecular Weight:	11 & 22 kDa in SDS-PAGE may be due to homodimer

PROPERTIES

AA Sequence	N R M R C Y N C G G S P S S S C K E A V T T C G E G R P Q P G L E Q I K L P G N P P V T L I H Q H P A C V A A H H C N Q V E T E S V G D V T Y P A H R D C Y L G D L C N S
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized Human LY6G6D at 2 µg/mL can bind Anti-LY6G6D recombinant antibody, the EC ₅₀ is 2.816-9.81 ng/mL.
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against solution in 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0 or PBS, 6% Trehalose, pH 7.4.
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	LY6G6D belongs to the leukocyte antigen-6 (LY6) gene cluster located in the Major Histocompatibility complex (MHC) Class III region of chromosome 6. Members of the LY6 superfamily typically contain 70 to 80 amino acids, including 8 to 10 cysteines. LY6G, a small protein attached to cell surfaces via glycosylphosphatidylinositol (GPI) anchor, is used as a marker for granulocyte and myeloid suppressor cell subpopulations in mice. LY6G6D participates in the JAK-STAT5 and RAS-MEK-ERK signaling pathways. LY6G6D is a selectively expressed colorectal cancer antigen that targets therapeutic T-cell responses via T-cell adaptors ^{[1][2][3][4]} .
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Caution: Product has not been fully validated for medical applications. For research use only.

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