CD20/MS4A1 Protein, Human (Trx-His)

Cat. No.:	HY-P7896A
Synonyms:	rHuB-lymphocyte antigen CD20/CD20, Trx-His; MS4A1; CD20; MS4A-1; B1; Bp35; CVID5; LEU-16; MS4A2; S7
Species:	Human
Source:	E. coli
Accession:	P11836 (I141-S188)
Gene ID:	931
Molecular Weight:	approximately 20.91 kDa

PROPERTIES

AA Sequence	I K I S H F L K M E S L N F I R A H T P Y I N I Y N C E P A N P S E K N S P S T Q Y C Y S I Q S
Biological Activity	Data is not available.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 50 mM Tris-HCl, 150 mM NaCl, 1 mM EDTA, 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. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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	The CD20/MS4A1 protein, a B-lymphocyte-specific membrane protein, plays a crucial role in regulating cellular calcium influx essential for the development, differentiation, and activation of B-lymphocytes. It functions as a component of the store-operated calcium (SOC) channel, promoting calcium influx upon activation by the B-cell receptor/BCR. CD20/MS4A1 forms homotetramers, contributing to its structural organization and functional role in calcium signaling. Notably, it interacts with both the heavy and light chains of cell surface IgM, the antigen-binding components of the BCR, highlighting its involvement in the B-cell receptor complex and underscoring its significance in B-cell activation and immune responses.

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

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