Proteins

Product Data Sheet



CD45 Protein, Mouse (HEK293, Fc)

Cat. No.: HY-P72916

Receptor-type tyrosine-protein phosphatase C; L-CA; T200; PTPRC; CD45 Synonyms:

Species: Source: HEK293

NP_035340.3 (Q26-N425) Accession:

Gene ID: 19264

Molecular Weight: Approximately 130 kDa

PROPERTIES

AA Sequence	
7.51.504.60.00	QTPTPSDGAS LTTLTPSTLG LASTDPPSTT IATTTKQTCA
	AMFGNITVNY TYESSNQTFK ADLKDVQNAK CGNEDCENVL
	NNLEECSQIK NISVSNDSCA PATTIDLYVP PGTDKFSLHD
	CTPKEKANTS ICLEWKTKNL DFRKCNSDNI SYVLHCEPEN
	NTKCIRRNTF IPERCQLDNL RAQTNYTCVA EILYRGVKLV
	KNVINVQTDL GIPETPKPSC GDPAARKTLV SWPEPVSKPE
	SASKPHGYVL CYKNNSEKCK SLPNNVTSFE VESLKPYKYY
	EVSLLAYVNG KIQRNGTAEK CNFHTKADRP DKVNGMKTSR
	PTDNSINVTC GPPYETNGPK TFYILVVRSG GSFVTKYNKT
	NCQFYVDNLY YSTDYEFLVS FHNGVYEGDS VIRNESTNFN
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in PBS, pH 7.4. 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.

DESCRIPTION

Background

Shipping

CD45 protein, a member of the protein tyrosine phosphatase family, exhibits versatile functions, including heparan sulfate proteoglycan binding activity, heparin binding activity, and protein tyrosine phosphatase activity. It is intricately involved in

Room temperature in continental US; may vary elsewhere.

key processes such as lymphocyte differentiation, positive regulation of macromolecule metabolic processes, and regulation of signal transduction. CD45 acts upstream in lymphocyte-related pathways, including differentiation and activation, while being prominently located in the external side of the plasma membrane, focal adhesion, and membrane raft. Widely expressed in various structures such as the 3rd branchial arch, alimentary system, cardiovascular system, hemolymphoid system, and placenta, CD45's significance is underscored by its association with conditions like systemic lupus erythematosus. The human ortholog of this gene, PTPRC (protein tyrosine phosphatase receptor type C), is implicated in hepatitis C, multiple sclerosis, and severe combined immunodeficiency, highlighting its pivotal role in immune-related disorders.

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

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