

CD45 Protein, Mouse (sf9, His-GST)

Cat. No.:	HY-P72915			
Synonyms:	Receptor-type tyrosine-protein phosphatase C; L-CA; T200; PTPRC; CD45			
Species:	Mouse			
Source:	Sf9 insect cells			
Accession:	AAA39458.1 (N453-S1152)			
Gene ID:	19264			
Molecular Weight:	Approximately 110 kDa			

PROPERTIES

AA Sequence						
·	NGKIQRNGTA	ЕКСNFHTKAD	R P D K V N G M K T	SRPTDNSINV		
	ТССРРҮЕТМС	PKTFYILVVR	SGGSFVTKYN	KTNCQFYVDN		
	LYYSTDYEFL	VSFHNGVYEG	DSVIRNESTN	FNAKALIIFL		
	VFLIIVTSIA	LLVVLYKIYD	LRKKRSSNLD	EQQELVERDD		
	EKQLMDVEPI	HSDILLETYK	RKIADEGRLF	LAEFQSIPRV		
	FSKFPIKDAR	K P H N Q N K N R Y	VDILPYDYNR	VELSEINGDA		
	GSTYINASYI	DGFKEPRKYI	AAQGPRDETV	DDFWRMIWEQ		
	KATVIVMVTR	CEEGNRNKCA	EYWPSMEEGT	RAFKDIVVTI		
	NDHKRCPDYI	IQKLNVAHKK	EKATGREVTH	IQFTSWPDHG		
	VPEDPHLLLK	LRRRVNAFSN	FFSGPIVVHC	SAGVGRTGTY		
	IGIDAMLEGL	EAEGKVDVYG	Y V V K L R R Q R C	LMVQVEAQYI		
	LIHQALVEYN	QFGETEVNLS	ЕLHSCLHNMK	KRDPPSDPSP		
	LEAEYQRLPS	YRSWRTQHIG	NQEENKKKNR	NSNVVPYDFN		
	RVPLKHELEM	SKESEPESDE	SSDDDSDSEE	TSKYINASFV		
	МЅҮѠҜҎЕММІ	AAQGPLKETI	GDFWQMIFQR	KVKVIVMLTE		
	LVNGDQEVCA	QYWGEGKQTY	GDMEVEMKDT	NRASAYTLRT		
	FELRHSKRKE	Ρ R T V Y Q Y Q C T	TWKGEELPAE	PKDLVSMIQD		
	LKQKLPKASP	Е G M K Y H K H A S				
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.					
Appearance	Solution.					
PL ··· ··						
Formulation	Supplied as a 0.2 μm filtered solution of 20 mM Tris, 500 mM NaCl, 0.5 mM GSH, 3 mM DTT, pH 7.4, 10% gly					
Endotoxin Level	<1 EU/μg, determined by LAL method.					
Reconsititution	N/A					
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.					

DESCRIPTION

Background

Receptor-type tyrosine-protein phosphatase C (CD45), 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 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^{[1][2][3]}.

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

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA