

CD43 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P78258
Synonyms:	Leukosialin; CD43; Ly-48; A630014B01Rik; Galgp; GPL115; LSN; Sialophorin; SPN
Species:	Mouse
Source:	HEK293
Accession:	P15702 (D20-G248)
Gene ID:	20737
Molecular Weight:	80-120 kDa

PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	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.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	<p>The CD43 protein in mice emerges as the predominant cell surface sialoprotein of leukocytes, wielding a regulatory influence over various T-cell functions crucial to immune responses. CD43 positively regulates T-cell activation, proliferation, differentiation, trafficking, and migration, particularly enhancing T-cell trafficking to lymph nodes through its interaction with ERM proteins (EZR, RDX, and MSN). In addition to negatively regulating Th2 cell differentiation, CD43 steers T-cells towards a Th1 lineage commitment. It plays a pivotal role in inducing the expression of IFN-gamma during T-cell receptor (TCR) activation, affecting both CD4(+) and CD8(+) T-cells, and contributes to T-cell preparation for cytokine sensing and differentiation into effector cells by influencing the expression of cytokine receptors IFNGR and IL4R. Serving as a major E-selectin ligand, CD43 facilitates Th17 cell rolling on activated vasculature and subsequent recruitment during inflammation, mediating Th17 cell adhesion to E-selectin. Moreover, CD43 acts as a T-cell counter-receptor for SIGLEC1 and exhibits a protective role by shielding cells from apoptotic signals, thus promoting cell survival.</p>
------------	---

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