

## Product datasheet for **TP727752**

### CD69 Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Human Early Activation Antigen CD69/CD69 (N-8His)
Species:	Human
Expression cDNA Clone or AA Sequence:	Gly64-Lys199
Tag:	N-His
Buffer:	Lyophilized from a 0.2 um filtered solution of PBS, pH 7.4.
Note:	Recombinant Human Early Activation Antigen CD69 is produced by our Mammalian expression system and the target gene encoding Gly64-Lys199 is expressed with a 8His tag at the N-terminus.
Storage:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Stability:	12 months from date of despatch
Locus ID:	969
UniProt ID:	<u><a href="#">Q07108</a></u>
Synonyms:	Early activation antigen CD69; Activation inducer molecule; AIM; BL-AC/P26; C-type lectin domain family 2 member C; EA1; Early T-cell activation antigen p60; GP32/28; Leukocyte surface antigen Leu-23; MLR-3; CD69; CLEC2C



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**Summary:**

Human Early Activation Antigen CD69 (CD69) is a type 2 transmembrane glycoprotein in the C-type lectin family. It plays roles in immune cell trafficking, inflammation, T cell memory, and humoral immune responses. CD69 is expressed on the cell surface as an approximately 60 kDa disulfide-linked homodimer. It is found on CD4+ T cells, CD8+ T cells, NK cells, NKT cells, gamma delta cells dendritic cells (DC) and is up-regulated on activated T cells and DC. Ligation of CD69 on DC induces IL2 production, leading to T cell proliferation. CD69 is important for the homing of CD4+ T cells and plasmablasts to the bone marrow but inhibits the migration of dermal DC to draining lymph nodes. It supports the expression of multiple chemokines and chemokine receptors but suppresses the expression of others. It associates with and negatively regulates S1P1 expression on DC and CD4+ T cells, resulting in a decreased chemotactic response to S1P. The direct interaction of CD69 with Galectin-1 contributes to the ability of CD69 to limit Th17 mediated inflammation while supporting the differentiation of regulatory T cells.

**Protein Families:**

Druggable Genome, ES Cell Differentiation/IPS, Transmembrane