

CD27/TNFRSF7 Protein, Rat (HEK293, Fc)

Cat. No.:	HY-P75427
Synonyms:	CD27 antigen; T cell activation antigen CD27; T14; TNFRSF7
Species:	Rat
Source:	HEK293
Accession:	NP_001019506 (M1-R183)
Gene ID:	500318
Molecular Weight:	Approximately 45 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μ m filtered solution of PBS, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O.
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	CD27/TNFRSF7 Protein is predicted to exhibit cysteine-type endopeptidase inhibitor activity involved in the apoptotic process and is involved in the cellular response to ethanol. This protein is primarily located in the membrane. The human ortholog(s) of this gene are implicated in lymphoproliferative syndrome 2, highlighting its role in immune system regulation. As the orthologous counterpart to human CD27 (CD27 molecule), CD27/TNFRSF7 demonstrates biased expression, with significant levels observed in the Thymus (RPKM 187.5), Spleen (RPKM 34.1), and one other tissue. This expression pattern underscores its potential involvement in immune functions, particularly within lymphoid tissues, and suggests a specialized role in modulating apoptotic processes in response to specific stimuli like ethanol.
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Caution: Product has not been fully validated for medical applications. For research use only.

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