
Product Data Sheet

Product Name: CD27 Human, HEK

Cat. No.: GP26238

Batch No.: 1

Product Data

Purity >98% Source HEK293 Cells.

Physical Appearance solid Shipping Condition withIcePacks

Synonyms Tumor Necrosis Factor Receptor Superfamily Member 7, T-Cell Activation Antigen CD27, CD27 Molecule, CD27 Antigen, T Cell Activation Antigen S152, CD27L Receptor, TNFRSF7, S152, Tp55, T14.

Amino Acid Sequence
ATPAPKSCPE RHYWAQGKLC CQMCEPGTFL VKDCDQHRKA AQCDPCIPGV
SFSPDHHTRP HCESCRHCNS GLLVRNCTIT ANAECACRNG WQCRDKECTE
CDPLPNPSLT ARSSQALSPH PQPTHLPYVS EMLEARTAGH MQTLADFRQL
PARTLSTHWP PQRSLCSSDF IRLEPKSCDK THTCPAPCAP ELLGGPSVFL
FPPKPKDTLM ISRTPEVTCV VVDVSHEDPE VKFNWYVDGV EVHNAKTKPR
EEQYNSTYRV VSVLTVLHQD WLNGKEYKCK VSNKALPAPI EKTISKAKGQ
PREPQVYTLR PSRDELTKNQ VSLTCLVKGF YPSDIAVEWE SNGQPENNYK
TTPPVLDSDG SFFLYSKLTV DKSRWQQGNV FSCSVMHEAL HNHYTQKSL
LSPGKHHHHH H

Formulation The CD27 solution (0.5mg/ml) contains 10% Glycerol and Phosphate-Buffered Saline (pH 7.4).

Introduction

CD27 belongs to the TNF-receptor superfamily. CD27 is necessary for initiation and long-term maintenance of T cell immunity. CD27 binds to ligand CD70, and has a crucial role in regulating B-cell activation and immunoglobulin synthesis. The CD27 receptor transduces signals which result in the activation of NF-kappaB and MAPK8/JNK. Adaptor proteins TRAF2 and TRAF5 mediate the signaling process of CD27. CD27-binding protein (SIVA), which is a proapoptotic protein, can bind to the CD27 receptor and is believed to have a significant role in the apoptosis induced by CD27.

Biological ActivityED50 range is ≤ 0.8 μ g/ml. Defined by its binding ability in a functional ELISA with**Caution: Product has not been fully validated for medical applications. For research use only.**

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Human CD27 Ligand/TNFSF7 (CAT# cyt-953).

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

CD27 Human Recombinant produced in HEK cells is a single, glycosylated, polypeptide chain (20-191 a.a) containing a total of 411 amino acids, having a molecular mass of 46.2kDa. CD27 is fused to a 239 amino acid hIgG-His-Tag at C-terminus, and is purified by proprietary chromatographic techniques.

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