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## Product Data Sheet

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Product Name: CD81 Human  
 Cat. No.: GP23077  
 Batch No.: 1

### Product Data

|                     |       |                    |                         |
|---------------------|-------|--------------------|-------------------------|
| Purity              | >98%  | Source             | Sf9, Baculovirus cells. |
| Physical Appearance | solid | Shipping Condition | Shipped with Ice Packs. |

Synonyms CD81 Molecule; CD81 Antigen (Target Of Antiproliferative Antibody 1); 26 KDa Cell Surface Protein TAPA-1; Tetraspanin-28; CD81 Antigen; Tspan-28; TSPAN28; TAPA1; Target Of The Antiproliferative Antibody 1; CVID6; S5.7; 26 kDa cell surface protein TAPA-1; Target of the antiproliferative antibody 1; Tetraspanin-28; Tspan-28.

Amino Acid Sequence  
 ADPFVNKDQI AKDVKQFYDQ ALQQAVVDDD ANNAKAVVKT FHETLDCCGS  
 STLTALTTSV LKNLCPSPGS NIISNLFKED CHQKIDDLFS GKLEPKSCDK  
 THTCPPCPAP ELLGGPSVFL FPPKPKDTLM ISRTPEVTCV VDVSHEDPE  
 VKFNWYVDGV EVHNAKTKPR EEQYNSTYRVVSVLTVLHQD WLNGKEYKCK  
 VSNKALPAPI EKTISKAKGQ PREPQVYTLPSRDELTKNQ VSLTCLVKGFL  
 YPSDIAVEWE SNGQPENNYK TTPPVLDSDG SFFLYSKLTV DKSRWQQGNV  
 FSCSVMHEAL HNHYTQKSLSLSPGKHHHHH H.

Formulation CD81 protein solution (0.5mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.

### Introduction

CD81 antigen isoform 1, also known as CD81, is part of the tetraspanin family. CD81 interacts directly with immunoglobulin superfamily member 8 (IGSF8, CD316) and CD36. In B cells, CD81 is part of a complex with CD21, CD19 and Leu13. Furthermore, this complex decreases the threshold for B cell activation through B cell receptors by linking Ag specific recognition and CD21 mediator recognition. While on T cells CD81 connects with CD4 and CD8 and provides a costimulatory signal with CD3.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

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

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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

CD81 produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 331 amino acids (113-201a.a.) and having a molecular mass of 37.0kDa. (Molecular size on SDS-PAGE will appear at approximately 40-57kDa). CD81 is expressed with a 242 amino acid hIgG-His-tag at C-Terminus and purified by proprietary chromatographic techniques.

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