

**DESCRIPTION**

**Source** Chinese Hamster Ovary cell line, CHO-derived  
Val26-Asp158, with a C-terminal 6-His tag  
Accession # P15530

**N-terminal Sequence Analysis** Met29 & Ser31

**Predicted Molecular Mass** 16 kDa

**SPECIFICATIONS**

**SDS-PAGE** 20-42 kDa, reducing conditions

**Activity** Bioassay data are not available.

**Endotoxin Level** <0.10 EU per 1 µg of the protein by the LAL method.

**Purity** >95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.

**Formulation** Lyophilized from a 0.2 µm filtered solution in PBS. See Certificate of Analysis for details.

**PREPARATION AND STORAGE**

**Reconstitution** Reconstitute at 250 µg/mL in PBS.

**Shipping** The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

**Stability & Storage** Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 3 months, -20 to -70 °C under sterile conditions after reconstitution.

**DATA**

Bioactivity not tested



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R&D Systems proteins are almost always sold with a bioassay to indicate activity. However, we recognize that sometimes proteins might be novel, and their bioactivity may not be well understood. In addition, some researchers may wish to use polypeptides to make antibodies. To facilitate the advancement of new science, we now offer our Innovator Series of proteins.

**BACKGROUND**

CD79B (also known as B29, Ig beta and B cell antigen receptor complex-associated protein beta-chain) is a 37-39 kDa member of the Ig-Superfamily. It is expressed on B cells, and forms a covalent heterodimer with CD79a. This complex interacts non-covalently with membrane Ig, forming the B cell antigen receptor. Within this complex, membrane Ig detects antigen while CD79AB initiates signaling (1). CD79B is also required for formation of pre-B cells during B cell development. Mature mouse CD79B is a 203 amino acid (aa) type I transmembrane glycoprotein (aa 26-228). It contains an extracellular region with one V-type Ig-like domain (aa 41-132) and an ITAM-containing cytoplasmic domain (aa 184-212) (2). Mouse CD79a and CD79B share only 24% aa identity. Over aa 29-158, mouse CD79B shares 54% and 78% aa identity with human and rat CD79B, respectively.

**References:**

1. Tseng, J. *et al.* (1997). *Blood* **89**:1513.
2. Radaev, Sergei, *et al.* (2010) *Structure* **18**:934.