

CD177 Protein, Human, Recombinant (GST & His)

General Information

Synonyms:	CD177 antigen;NB1 glycoprotein (NB1 GP);Polycythemia rubra vera protein 1 (PRV-1);CD177;PRV1;Human neutrophil alloantigen 2a (HNA-2a);NB1
Protein Construction:	22-321 aa
Species:	Human
Expression Host:	E. coli
Accession:	Q8N6Q3
Molecular Weight:	63.6 kDa (predicted)
AA Sequence:	LLCQFGTVQHVWKVSDLPRQWTPKNTSCDSGLGCQDTLMLIESGPQVSLVLSKGCTEAKDQEPRVTEHRMG PGLSLISYTFVCRQEDFCNNLVNSLPLWAPQPPADPGSLRCPVCLSMEGCLEGTTEEICPKGTTTCYDGLLR GGGIFSNLRVQGCMPQPGCNLLNGTQEIGPVGMTENCNRKDFLTCHRGTTIMTHGNLAQEPTDWTTSNTEM CEVGQVCQETLLLLLDVGLTSTLVGTKGCSTVGAQNSQKTTIHSAPPGLVASYTHFCSSDLCNSASSSSVLLNS LPPQAAPVPG

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/ μ g of the protein as determined by the LAL method.
Formulation:	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μ g/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

A DRUG SCREENING EXPERT

In association with beta-2 integrin heterodimer ITGAM/CD11b and ITGB2/CD18, mediates activation of TNF-alpha primed neutrophils including degranulation and superoxide production. In addition, by preventing beta-2 integrin internalization and attenuating chemokine signaling favors adhesion over migration. Heterophilic interaction with PECAM1 on endothelial cells plays a role in neutrophil transendothelial migration in vitro. However, appears to be dispensable for neutrophil recruitment caused by bacterial infection in vivo. Acts as a receptor for the mature form of protease PRTN3 allowing its display at the cell surface of neutrophils. By displaying PRTN3 at the neutrophil cell surface, may play a role in enhancing endothelial cell junctional integrity and thus vascular integrity during neutrophil diapedesis.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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