

Xg blood group Protein, Human, Recombinant (His)

General Information

Synonyms:	Xg blood group;PBDX
Protein Construction:	A DNA sequence encoding the human XG (NP_001135392.1) (Met1-Lys143) was expressed with a polyhistidine tag at the C-terminus. Predicted N terminal: Gln 22
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P55808-2
Molecular Weight:	14.6 kDa (predicted)

QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 95 % as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:
A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:
It is recommended to store recombinant proteins at -20°C to -80°C for future use. 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

XG, Gene ID 7499, stands for Xg glycoprotein or Xg blood group. The XG blood group system includes 2 antigens: Xga and CD99 (encoded by the MIC2 gene). The XG blood group is the first blood group mapped to the human X chromosome. XG is very essential in genome mapping and whole-genome sequencing. In other words, it is an important tool used to examine the human X chromosome as a marker to map sex-linked traits and to help define mechanisms underlying sex chromosome disorders.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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