

PEAR1 Protein, Rat, Recombinant (His)

General Information

Synonyms:	platelet endothelial aggregation receptor 1
Protein Construction:	A DNA sequence encoding the rat Pear1 (NP_001128431.1) (Met1-Ser752) was expressed with a polyhistidine tag at the C-terminus. Predicted N terminal: Leu 19
Species:	Rat
Expression Host:	Baculovirus Insect Cells
Accession:	B5DEG9
Molecular Weight:	78.9 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 20 mM Tris, 500 mM NaCl, 10% glycerol, 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

Platelet endothelial aggregation receptor-1 (PEAR1), an epidermal growth factor repeat-containing transmembrane receptor, is known to participate in platelet contact-induced activation. Platelet endothelial aggregation receptor 1 (PEAR1) triggers platelet aggregation and is expressed in platelets and endothelial cells. PEAR1 encodes the Platelet-Endothelial Aggregation Receptor 1, a contact receptor involved in platelet function and megakaryocyte and endothelial cell proliferation. PEAR1 expression during megakaryocyte differentiation is

controlled by DNA methylation at its first CpG island.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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