

Active Recombinant Human Platelet Endothelial Aggregation Receptor 1, His-tagged

Cat. No. PEAR1-498H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human PEAR1 protein was expressed in CHO with a C-terminal 6-His tag. Leu21-Ser754.
Species	Human
Source	CHO
Protein Length	21-754 a.a.
Description	PEAR1 is a 150 kDa type I transmembrane protein and member of the MEGF family of proteins. Human PEAR1 is synthesized as a 1037 amino acid (aa) precursor that contains a 20aa signal sequence, a 735 aa extracellular domain (ECD), a 21 aa transmembrane region, and a 261 aa cytoplasmic region.
Form	Lyophilized from a 0.2 µm filtered solution in PBS.
N-terminal Sequence	Leu21
Molecular Weight	78.3 kDa
Activity	Measured by the ability of the immobilized protein to support the adhesion of thrombin-activated human platelets. When 5 x 10 ⁶ cells per well are added to rhPEAR1 coated plates (1 µg/mL, 100 µL/well), approximately 50%-70% will adhere after 1 hour at 37°C.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.
SDS-PAGE	120-130kDa, reducing conditions.
Purity	>90%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	200 µg/ mL in PBS
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.

GENE INFORMATION

Gene Name	PEAR1 platelet endothelial aggregation receptor 1 [Homo sapiens]
Official Symbol	PEAR1
Synonyms	PEAR1; platelet endothelial aggregation receptor 1; JEDI; MEGF12; FLJ00193; Hpear1; multiple EGF-like-domains 12; multiple EGF-like domains protein 12; multiple epidermal growth factor-like domains protein 12; OTTHUMP00000038718
Gene ID	375033
mRNA Refseq	NM_001080471
Protein Refseq	NP_001073940
MIM	610278

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UniProt ID Q5VY43

**Chromosome
Location** 1q23.1

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