

## T Plastin/PLS3 Protein, Human, Recombinant (His)

### General Information

Synonyms:	BMND18;T-plastin;plastin 3
Protein Construction:	A DNA sequence encoding the human PLS3 (P13797) (Gly102-Asn375) was expressed with a polyhistidine tag at the N-terminus. Predicted N terminal: His
Species:	Human
Expression Host:	E. coli
Accession:	P13797
Molecular Weight:	32.2 kDa (predicted); 30-34 kDa (reducing conditions)

### 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:	Please contact us for more information.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS, 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:**  
Reconstituted with sterile deionized water to 0.25 mg/mL. Reconstitution conditions may vary depending on the lot.

#### 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

PLS3, also known as plastin 3, belongs to the plastin family. Members of this family are actin-binding proteins that are conserved throughout eukaryote evolution and expressed in most tissues of higher eukaryotes. There are two ubiquitous plastin isoforms in humans: L and T. The L isoform is expressed only in hemopoietic cell lineages, while the T isoform has been found in all other normal cells of solid tissues that have replicative potential (fibroblasts, endothelial cells, epithelial cells, melanocytes, etc.). PLS3 contains 2 actin-binding domains, 4 CH (calponin-

homology) domains and 2 EF-hand domains. It is expressed in a variety of organs, including muscle, brain, uterus and esophagus.

### Reference

- Lin CS. et al., 1993, J Biol Chem 268 (4): 2781-92.  
Goldstein D. et al., 1985, Cancer Res. 45 (2): 5643-7.  
Arpin M. et al., 1995, J Cell Biol. 127 (2): 1995-2008.

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