

Profilin-1 Protein, Human, Recombinant (GST)

General Information

Synonyms:	Profilin-1; Profilin I; Epididymis tissue protein Li 184a; PFN1
Protein Construction:	2-140 aa
Species:	Human
Expression Host:	E. coli
Accession:	P07737
Molecular Weight:	41.9 kDa (predicted)
AA Sequence:	AGWNAYIDNLMADGTCQDAAIVGYKDSPSVWAAVPGKTFVNITPAEVGVLVGKDRSSFYVNGLTGGQKCS VIRDSLLQDGEFSMDLRTKSTGGAPTFFNVTVTKTDKTLVLLMGKEGVHGGGLINKKCYEMASHLRRSQY

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:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

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:

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

Binds to actin and affects the structure of the cytoskeleton. At high concentrations, profilin prevents the polymerization of actin, whereas it enhances it at low concentrations. By binding to PIP₂, it inhibits the formation of IP₃ and DG. Inhibits androgen receptor (AR) and HTT aggregation and binding of G-actin is essential for its inhibition of AR.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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