

Profilin 2 Protein, Phleum pratense, Recombinant (His & Myc)

General Information

Synonyms:	Allergen Phl p 11; Profilin-2; Profilin 4; PRO2; PRO4; Pollen allergen Phl p 12
Protein Construction:	2-131 aa
Species:	Phleum pratense
Expression Host:	E. coli
Accession:	O24650
Molecular Weight:	21.5 kDa (predicted)
AA Sequence:	SWQTYVDEHLMCEIEGHHLSAAILGHDGTVWAQSADFPQFKPEEITGIMKDFDEPGHLAPTGMFVAGAKY MVIQGEPGA VIRGKKGAGGITIKKTGQALVVG IYDEPMT PGQC NMVVERLGDYLV EQGM

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:	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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