

Lysenin Protein, Eisenia fetida, Recombinant (His)

General Information

Synonyms:	Lysenin;Beta-barrel pore-forming toxin (Beta-PFT);efL1;Invertebrate cytolysin pore
Protein Construction:	1-297 aa
Species:	Eisenia fetida
Expression Host:	E. coli
Accession:	O18423
Molecular Weight:	40.4 kDa (predicted)
AA Sequence:	MSAKAAEGYEQIEVDVVAVWKEGYVYENRGSTSVDQKITITKGMKNVNSETRTVTATHSIGSTISTGDAFEIGS VEVSYSHSHEESQVSMTEVEYESKVIEHTITIPPTSKFTRWQLNADVGGADIEYMYLIDEVTPIGGTQSIPQVIT SRAKIIVGRQIILGKTEIRIKHAERKEYMTVSRKSWPAATLGHSLKLFKFLYEDWGGFRIKTLNTMYSGYEYAY SSDQGGIYFDQGTDPKQRWAINKSLPLRHGDVVTFMKNKYFTRSGLCYDDGPATNVYCLDKREDKWILEVV G

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

A DRUG SCREENING EXPERT

Pore-forming toxin that defensively acts against parasitic microorganisms by forming pores in sphingomyelin-containing membranes. Has hemolytic activity and is also cytotoxic to spermatozoa of some species of invertebrates and many species of vertebrates and to amphibian larvae, guinea pig polymorphonuclear leukocytes, chicken fibroblasts, normal spleen cells and various tumor cells. Is lethal for various species of reptiles, amphibian, birds and mammals. Induces smooth muscle contraction. It binds sphingomyelin and induces hemolysis in the same manner as lysenin-related protein 2, and is 10-fold more effective than lysenin-related protein 1.

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