

SPINK5 Protein, Human, Recombinant (GST & His & Myc)

General Information

Synonyms:	Lympho-epithelial Kazal-type-related inhibitor (LEKTI);SPINK5;Serine protease inhibitor Kazal-type 5
Protein Construction:	722-847 aa
Species:	Human
Expression Host:	E. coli
Accession:	Q9NQ38
Molecular Weight:	49.5 kDa (predicted)
AA Sequence:	TRESDPVRDADGKSYNNQCTMCKAKLEREAERKNEYSRSRNGTGSSESGKDTCEFRSQMKNGKLICTRESDPVRGPDGKTHGNKCTMCKEKLEREAEEKKKKEDEDRSNTGERSNTGERSNDKED

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:	> 85% 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

Serine protease inhibitor, probably important for the anti-inflammatory and/or antimicrobial protection of mucous epithelia. Contribute to the integrity and protective barrier function of the skin by regulating the activity of defense-activating and desquamation-involved proteases. Inhibits KLK5, it's major target, in a pH-dependent

manner. Inhibits KLK7, KLK14 CASP14, and trypsin.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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