

## Leukocidin-F subunit/LukF Protein, *S. aureus* (Myc, His-SUMO)

Cat. No.:	HY-P71454
Synonyms:	lukF; Leukocidin-F subunit; Gamma-hemolysin; H-gamma-I subunit
Species:	<i>Staphylococcus aureus</i>
Source:	<i>E. coli</i>
Accession:	P31715 (26A-323K)
Gene ID:	/
Molecular Weight:	Approximately 54.0 kDa

### PROPERTIES

AA Sequence	<p> A E G K I T P V S V    K K V D D K V T L Y    K T T A T A D S D K    F K I S Q I L T F N  F I K D K S Y D K D    T L V L K A T G N I    N S G F V K P N P N    D Y D F S K L Y W G  A K Y N V S I S S Q    S N D S V N A V D Y    A P K N Q N E E F Q    V Q N T L G Y T F G  G D I S I S N G L S    G G L N G N T A F S    E T I N Y K Q E S Y    R T L S R N T N Y K  N V G W G V E A H K    I M N G W G P Y G R    D S F H P T Y G N E    L F L A G R Q S S A  Y A G Q N F I A Q H    Q M P L L S R S N F    N P E F L S V L S H    R Q D R A K K S K I  T V T Y Q R E M D L    Y Q I R W N G F Y W    A G A N Y K N F K T    R T F K S T Y E I D  W E N H K V K L L D    T K E T E N N K </p>
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against solution in Tris-based buffer, 50% glycerol.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH <sub>2</sub> O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	<p>The Leukocidin-F subunit/LukF protein induces cytotoxic changes in polymorphonuclear leukocytes, while the gamma-hemolysin causes hemolysis in red blood cells. Leukocidin is composed of two protein components: F and S. Additionally, gamma-hemolysin consists of two protein components, namely H-gamma-I, which is identical to F, and H-gamma-II. These proteins contribute to the overall pathogenic mechanisms by exerting cytotoxic effects on immune cells and causing hemolysis in red blood cells.</p>
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**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA