

## Leukotoxin Protein, *Aggregatibacter actinomycetemcomitans*, Recombinant (His)

### General Information

Synonyms:	Leukotoxin;Lkt;lktA;ltxA;AaLta
Protein Construction:	721-1055 aa
Species:	<i>Aggregatibacter actinomycetemcomitans</i>
Expression Host:	<i>P. pastoris</i> (Yeast)
Accession:	P16462
Molecular Weight:	38.3 kDa (predicted)
AA Sequence:	IGSTLRDKFYGSKFNDVFGHGDGDDLIYGYDGDDRLYGDNGNDEIHGGQGNDKLYGGAGNDRLFGEYGN YLDGGEGDDHLEGGNGSDILRGGSGNDKLFNGQGGDDLLDGGEGDDQLAGGEGNDIYVYRKEYGHHTITEHS GDKDKLSLANINLKDVSFERNNGNDLLLKTNNRTAVTFKGFWSKPNSSAGLDEYQRKLLEYAPEKDRARLKRQ FELQRGKVDKSLNKNVVEIIGKDGERTSQDIDNLFDKSGNKKTISPQELAGLIKNGKSSSLMSSSRSSSMLTQ KSGLSNDISRIISATSGFGSSGKALSASPLQTNNNFNSYANSLATTA

### 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:	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

Virulence factor that plays an important role in immune evasion. Lyses human lymphocytes and monocytes. Binds to the LFA-1 integrin on the surface of the host cell and to cholesterol-containing membranes, which probably results in large LtxA-LFA-1 clusters in lipid rafts. Shows also beta-hemolytic activity on certain types of growth

media.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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