

Alpha-hemolysin Protein, *S. aureus*, Recombinant (His & SUMO)

General Information

Synonyms:	hla;Alpha-HL;hly;Alpha-hemolysin;Alpha-toxin
Protein Construction:	27-319 aa
Species:	Staphylococcus aureus
Expression Host:	E. coli
Accession:	Q2G1X0
Molecular Weight:	49.3 kDa (predicted)
AA Sequence:	ADSDINIKTGTDDIGSNNTTVKTGDLVTDKENGMHKKVFYSFIDDKNHNKLLVIRTKGTIAGQYRVYSEEGAN KSGLAWPSAFKVQLQLPDNEVAQISDYPRNSIDTKEYMSTLTGYFNGNVTGDDTGKIGGLIGANVSIGHTLK YVQPDFKTILESPTDKKVGWKFVFNMMVNQNWGPYDRDSWNPVYGNQLFMKTRNGSMKAADNFLDPNKA SSLLSSGFSPDFATVITMDRKASKQQTNIDVIYERVRDDYQLHWTSTNWKGTNTKDKWIDRSSERYKIDWEKE EMTN

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:	Lyophilized from a 0.2 μm sterile filtered PBS, 6% Trehalose, pH 7.4.

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

Alpha-toxin binds to the membrane of eukaryotic cells resulting in the release of low-molecular weight molecules and leading to an eventual osmotic lysis. Inhibits host neutrophil chemotaxis to the lesion region (Probable).

Heptamer oligomerization and pore formation is required for lytic activity.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481