

Active Recombinant Staphylococcus alpha Hemolysin protein

Cat. No. Hla-01S Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Staphylococcus full length active alpha Hemolysin protein without tag was expressed in E. coli. Endotoxin level: = 5.165 Eu/mg
Species	Staphylococcus
Source	E.coli
Description	Staphylococcus aureus alpha Hemolysin binds to the membrane of eukaryotic cells resulting in the release of low-molecular weight molecules and leading to an eventual osmotic lysis. The toxin self-assembles to form first, a nonlytic oligomeric intermediate, and then, a mushroom-shaped homoheptamer structure. Heptamer oligomerization and pore formation is required for lytic activity.
Form	Liquid
Bio-activity	This product is active in functional lysis assays with rabbit red blood cells. EC50 ~0.015 µg/mL.
Molecular Mass	33 kDa
Applications	WB, Functional Studies, SDS-PAGE, ELISA
Storage	Store at -80 centigrade.

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Concentration	100 µg at 1.489 mg/mL
Storage Buffer	PBS, 20% Glycerol (glycerin, glycerine)
Shipping	Shipped at 4 centigrade.
Full Length	Full L.
GENE INFORMATION	
UniProt ID	P09616
Functional Studies	Lysis of rabbit red blood cells by S. aureus Hla. Red blood cell lysis was determined by absorbance at OD416 nm after 30 min incubation at 37 centigrade with Hla.
SDS-PAGE	Lane 1: 5 µg; Lane 2: 1 µg.
WB	All lanes: Mouse anti-Alpha Toxin (6C12) monoclonal antibody at 1 µg/mL Lane 1: Recombinant Staphylococcus alpha Hemolysin protein (Active) at 0.005 µg Lane 2: Recombinant Staphylococcus alpha Hemolysin protein (Active) at 0.01 µg Lane 3: Recombinant Staphylococcus alpha Hemolysin protein (Active) at 0.05 µg Secondary All lanes: Anti-mouse IgG-HRP conjugate