

α -Hemolysin (Staphylococcus aureus)

Chemical Properties

CAS No. : 94716-94-6

Formula:

Molecular Weight:

Keep away from moisture

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

Biological Description

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| Description | α -Hemolysin (Staphylococcus aureus), a polypeptide virulence factor of Staphylococcus aureus, disrupts host cell plasma membranes. Upon binding to the cell surface, its monomers create a homoheptameric prepore, which evolves into a mature transmembrane pore, facilitating K ⁺ and Ca ²⁺ ion transport that induces necrotic death in target cells [1]. |
| In vitro | α -Hemolysin (Staphylococcus aureus) induces IL-1 β secretion and caspase-1 activation in THP-1 cells via NLRP3 inflammasome-dependent caspase-1 activation [1]. Additionally, α -hemolysin (Staphylococcus aureus)(1 μ g/mL, 4h) triggers cell death in derivatives of THP cells, which requires host NLRP3 signaling but is independent of caspase-1 activation and IL-1 β secretion [1]. |

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