

Chemotaxis inhibitory Protein, *S. aureus* (P.pastoris, His)

Cat. No.:	HY-P71834
Synonyms:	chp; SAR2036 Chemotaxis inhibitory protein; CHIPS
Species:	Staphylococcus aureus
Source:	P. pastoris
Accession:	Q6GFB3 (29F-149Y)
Gene ID:	/
Molecular Weight:	Approximately 16.1 kDa

PROPERTIES

AA Sequence	<pre> FTFEPFPTNE EIESNKKMLE KEKAYKESFK NSGLPTTLGK LDERLRNYLK KGTKNSAQFE KMVILTENKG Y YTVYLNTP L AEDRKNVELL GKMYKTYFFK KGESKSSYVI NGPGKTNEYA Y </pre>
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 ₂ 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>Chemotaxis Inhibitory Protein (CIP) strategically navigates the realm of host defense mechanisms, specifically countering the initial lines of immune response. Its role unfolds in inhibiting the reactions of human neutrophils and monocytes to the complement anaphylatoxin C5a and formylated peptides, such as N-formyl-methionyl-leucyl-phenylalanine (fMLP). Functioning as a molecular sentinel, CIP directly engages with the C5a receptor (C5aR) and formylated peptide receptor (FPR), effectively obstructing the calcium responses induced by C5a and fMLP. In this tactical intervention, CIP acts as a guardian, thwarting the phagocytosis of the bacterium with finesse.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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