IdeS Protein, Streptococcus pyogenes (His)

Cat. No.:	HY-P74867
Synonyms:	Immunoglubulin-degrading enzyme; ideS
Species:	Others
Source:	E. coli
Accession:	F8V4V0 (D30-N341)
Gene ID:	/
Molecular Weight:	Approximately 36.2 kDa

PROPERTIES

Biological Activity	One unit digests ≥ 95% of 1μg human IgG when incubated in PBS buffer, pH 7.4 at 37°C for 30min. The specific activity is 20,000 unit/mg.
Appearance	Solution.
Formulation	Supplied as a 0.22 μm filtered solution of PBS, 50 % Glycerol, pH 6.6.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice

DESCRIPTION

Background	IdeS is a highly specific IgG endopeptidase evolved from Streptococcus pyogenes, which can not only degrade IgG but also directly or indirectly inhibit the innate immune response, thus promoting the survival of streptococcus in the inflammatory environment. IdeS was found to be identical to Mac-1 in Streptococcus, a protein thought to inhibit phagocytosis by inhibiting the recognition of IgG and/or complement configurations by the Fc receptor (CD16). IdeS/Mac-1 can inhibit the function of certain neutrophil effectors, namely the production of reactive oxygen species (ROS), independently of IgG endopeptidase activity[1][2].

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA