
Product Data Sheet

Product Name: CagA Pylori
Cat. No.: GP24098
Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Formulation	CagA Pylori recombinant protein is formulated in 1xPBS pH 7.4.		

Introduction

Helicobacter pylori is a Gram negative bacteria which colonizes in the human stomach and stimulates gastric mucosal inflammations leading to acute gastritis-associated diseases among them are atrophic gastritis, peptic ulcer and gastric cancer. H. pylori is found in half of the world's population and is defined as a group I carcinogen. An important virulence factor of H. pylori is Cytotoxin-associated gene A (CagA) which is located at the end of an approximately 40-kb cluster of genes called cag pathogenicity island (PAI). Cag PAI encodes a type-IV secretion system and transfers CagA protein into the intracellular region of gastric epithelial cell. This relocation induces cellular hyper proliferation, apoptosis and leading to failure of gastric epithelial cell in maintaining its normal cytoskeletal structure. Furthermore it increases the secretion of cytokines such as tumor necrosis factor (TNF) and interleukin (IL) 1, 6 and 8 by the epithelial cells. The IL-8 leads to extreme inflammatory responses and also stimulates the production of oxygen free radicals that could cause DNA damage to adjacent cells and lead to genetic modifications of gastric epithelial cells which are carcinogenic.

Stability

CagA Pylori although stable at 4°C for 1 week, should be stored below -18°C. Please prevent freeze thaw cycles.

Background

CagA Pylori recombinant antigen is produced in E. coli expressing the H. pylori Cytotoxin-Associated Gene A having the Mw of 34 kDa.

Caution: Product has not been fully validated for medical applications. For research use only.

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