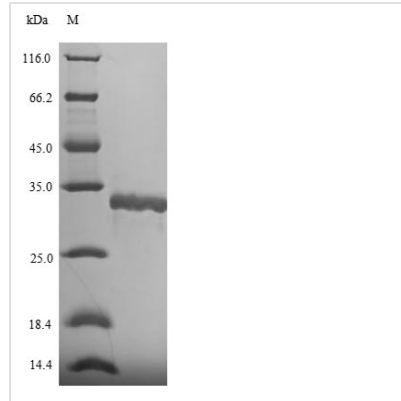


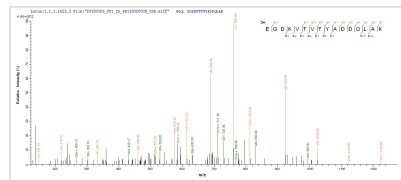


# Recombinant Helicobacter pylori DNA protection during starvation protein (dps)

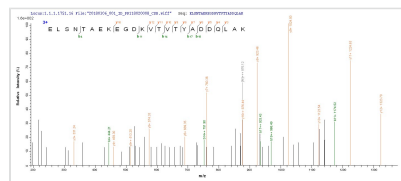
<b>Product Code</b>	CSB-EP337381HUV
<b>Relevance</b>	Protects DNA from oxidative damage by sequestering intracellular Fe <sup>2+</sup> ion and storing it in the form of Fe <sup>3+</sup> oxyhydroxide mineral. One hydrogen peroxide oxidizes two Fe <sup>2+</sup> ions, which prevents hydroxyl radical production by the Fenton reaction (By similarity). Required for the survival in the presence of oxidative stress. Dps is also a virulence factor that activates neutrophils, mast cells and monocytes. It binds to neutrophil-glycosphingolipids and to sulfated carbohydrates on mucin. It might have a role in the accumulation of neutrophils and monocytes at the site of infection. Induces superoxide anion generation, adhesion and chemotaxis of neutrophils, through a pertussis toxin-sensitive pathway involving MAP kinases.
<b>Abbreviation</b>	Recombinant Helicobacter pylori dps protein
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	P43313
<b>Alias</b>	Bacterioferritin HP-NAP Neutrophil-activating protein A Short name:NAP A
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Helicobacter pylori (strain ATCC 700392 / 26695) (Campylobacter pylori)
<b>Purity</b>	≥ 90% as determined by SDS-PAGE.
<b>Sequence</b>	MKTFEILKHLQADAIVLFMKVHNFHWNVKGTDFFNVHKATEEIIYEEFADMFDL AERIVQLGHHPLVTLSEAIKLTRVKEETKTSFHSKDIFKEILEDYKYLEKEFKELS NTAEKEGDKVTVTYADDQLAKLQKSIWMLQAHLA
<b>Research Area</b>	Microbiology
<b>Source</b>	E.coli
<b>Target Names</b>	dps
<b>Protein Names</b>	Recommended name: DNA protection during starvation protein EC= 1.16.-.- Alternative name(s): Bacterioferritin HP-NAP Neutrophil-activating protein A Short name= NAP A
<b>Expression Region</b>	1-144aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	N-terminal 6xHis-SUMO-tagged
<b>Mol. Weight</b>	32.9kDa


**Protein Length**
**Full Length**
**Image**


(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



Based on the SEQUEST from database of E.coli host and target protein, the LC-MS/MS Analysis result of CSB-EP337381HUV could indicate that this peptide derived from E.coli-expressed *Helicobacter pylori* (strain ATCC 700392 / 26695) (*Campylobacter pylori*) dps.



Based on the SEQUEST from database of E.coli host and target protein, the LC-MS/MS Analysis result of CSB-EP337381HUV could indicate that this peptide derived from E.coli-expressed *Helicobacter pylori* (strain ATCC 700392 / 26695) (*Campylobacter pylori*) dps.

**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

**Shelf Life**

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.