

Recombinant Helicobacter Pylori DPS Protein (1-144 aa), His-SUMO-tagged

Cat. No. DPS-2127H **Lot. No.** (See product label)

SPECIFICATION

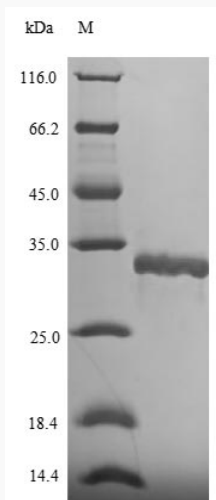
Product Overview	Recombinant Helicobacter Pylori (strain ATCC 700392/26695) (Campylobacter pylori) DPS Protein (1-144 aa) is produced by E. coli expression system. This protein is fused with a 6xHis-SUMO tag at the N-terminal. Research Area: Microbiology. Protein Description: Full Length.
Species	Helicobacter Pylori
Source	E.coli
ProteinLength	1-144 aa
Description	Protects DNA from oxidative damage by sequestering intracellular Fe ²⁺ ion and storing it in the form of Fe ³⁺ oxyhydroxide mineral. One hydrogen peroxide oxidizes two Fe ²⁺ 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.
Form	Tris-based buffer, 50% glycerol
Molecular Mass	32.9 kDa

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AA Sequence	MKTFEILKHLQADAIVLFMKVHNFHWNVKGTDFFNVHKATEEIIYEEFADMFDLLAERI VQLGHHPLVTLSEAIKLTRVKEETKTSFHSKDIFKEILEDYKYLEKEFKELSNTAEKEG DKVTVTYADDQLAKLQKSIWMLQAHLA
Purity	> 90% as determined by SDS-PAGE.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
Storage	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 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.
Concentration	A hardcopy of COA with reconstitution instruction is sent along with the products.
GENE INFORMATION	
Synonyms	dps; Bacterioferritin HP-NAP Neutrophil-activating protein A Short name:NAP A;
UniProt ID	P43313



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

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