9051 Mira Mesa Blvd, #910094
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HP-NAP

Neutrophil-activating protein A Helicobacter Pylori Recombinant
VAG0355

Product Overview

Name	HP-NAP
Description	
Neutrophil-activating protein A Helicobacter Pylori Recombinant	
Accession (Primary)	P43313
Synonyms	
DNA protection during starvation protein, Bacterioferritin, HP-NAP, Neutrophil-activating protein A, NAP A, dps, napA.	
Introduction	
HP-NAP protects DNA from oxidative damage by sequestering intracellular Fe2+ ion and storing it in the form of Fe3+ oxyhydroxide mineral. One hydrogen peroxide oxidizes two Fe2+ ions, thus preventing hydroxyl radical production by the Fenton reaction. HP-NAP is necessary for the survival in the presence of oxidative stress. Dps is also a virulence factor which activates neutrophils, mast cells and monocytes. HP-NAP binds to neutrophil-glycosphingolipids and to sulfated carbohydrates on mucin. HP-NAP might play a part in the accumulation of neutrophils and monocytes at the site of infection. HP-NAP induces superoxide anion generation, adhesion and chemotaxis of neutrophils, via a pertussis toxin-sensitive pathway involving MAP kinases.	
Source	
Escherichia Coli.	
Physical Appearance	
Filtered White lyophilized (freeze-dried) powder.	
Formulation	
HP-NAP was filtered (0.4 μm) and lyophilized in 20mM Tris buffer and 50mM NaCl, pH 7.5.	
Stability	
Store lyophilized protein at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C.	
Purity	
Greater than 90.0% as determined by SDS-PAGE.	
Amino acid sequence	
MKHHHHHHAS MKTFEILKHL QADAIVLFMK VHNFHWNVKG TDFFNVHKAT EEIYEEFADM FDDLAERIVQ	

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LGHHPLVTLS EAIKLTRVKE ETKTSFHSKD IFKEILEDYK YLEKEFKELS NTAEKEGDKV TVTYADDQLA KLQKSIWMLQ AHLA.

Solubility

It is recommended to add deionized water to prepare a working stock solution of approximately 0.5mg/ml and let the lyophilized pellet dissolve completely. HP-NAP is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.

Precautions

HP-NAP is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P43313)