

PA0122 (*Pseudomonas aeruginosa*)*Pseudomonas aeruginosa*, recombinant protein expressed in *E. coli*.

Low Endotoxin & Sterilized

Cat# CY-R2474

Amount: 100 µg (1 µg/µl)

Lot:

Introduction:

A novel protein, PA0122, has been identified in *Pseudomonas aeruginosa* and shown to bind to oxidized low-density lipoprotein (Ox-LDL). The PA0122 gene was recognized based on gene expression pattern differences between two strains of *P. aeruginosa* isolated from the sputum of an individual with cystic fibrosis (CF). PA0122 encodes a 136 a.a. conserved hypothetical protein that has similarity to *Aspergillus fumigatus* Asp-haemolysin, which is an Ox-LDL-binding protein, and possessed a motif that is homologous to the fungal aegerolysin family of proteins. Surface plasmon resonance revealed that recombinant PA0122 binds with high affinity to Ox-LDL and to its major subcomponent, lysophosphatidylcholine, but not to non-oxidized LDL.

Product Description:

Full length (136 a.a.) of PA0122 (*Pseudomonas aeruginosa*), containing an N-terminal GST tag, expressed in *E. coli*. and purified by GSH agarose chromatography.

Gene Information:

The gene accession number is NP_248812.1

Amino acids sequence:

MAYAEWIAVKVVVSKSIGTVGIRNATLQWGKPYRYTNKDDDEISTEEVSSMNVQAGSPQWIA
SCGRENASSGTQGSFDCYDGNTKMGTFSWDDPWKSGATNTWSFTPASADYAGITSGGNAT
GTDIGEVTTLGRFS

Gene Aliases:

Aegerolysin, putative hemolysin

Formulation:

Recombinant PA0122 is supplied frozen in 2X phosphate buffered saline (2X PBS) containing 50 % glycerol.

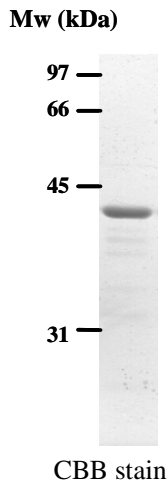
Endotoxin Concentration:

< 0.01 EU/µg as determined by Limulus Amebocyte Lysate (LAL) assay

Purity:

> 90 % as determined by SDS PAGE

Molecular Weight: 43 kDa



Recombinant PA0122 demonstrates approximately 43 kDa band by SDS-PAGE analysis.

Storage:

Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, AVOID REPEATED HANDLING AND MULTIPLE FREEZE/THAW CYCLES.

Stability:

Unopened vial at -70 °C, for 1 year after delivery.

References:

1. Rao J, DiGiandomenico A, Unger J, Bao Y, Polanowska-Grabowska RK, Goldberg JB. *Microbiology*. **154**: 654-65, 2008

Related Products

- * PA0122 (*Pseudomonas aeruginosa*) Low Endotoxin: Cat# CY-R2474
- * Asp-hemolysin Low Endotoxin: Cat# CY-R2475

PRODUCED BY

CycLex Co., Ltd.
1063-103 Terasawaoka
Ina, Nagano 396-0002
Japan
Fax: +81-265-76-7618
e-mail: info@cyclex.co.jp
URL: <http://www.cyclex.co.jp>

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