4-Hydroxyphenylacetate 3-Monooxygenase Reductase Component (hpaC) Salmonella Typhi Recombinant Protein

PRODUCT OVERVIEW

Product Name	4-hydroxyphenylacetate 3-monooxygenase reductase component (hpaC), Recombinant Protein
Full Product Name	Recombinant Salmonella typhi 4-hydroxyphenylacetate 3-monooxygenase reductase component (hpaC)
Product Gene Name	hpaC recombinant protein
Product Synonym Gene Name	hpaC
Sequence	MQVDEQRLRF RDAMASLAAA VNIVTTAGHA GRCGITATAV CSVTDTPPSV MVCINANSAM NPVFQGNGRL CINVLNHEQE LMARHFVGMT GMAMEERFHQ PCWQNGPLGQ PVLNGALASL EGEISEVQTI GTHLVYLVAI KNIILSQEGH GLIYFKRRFH PVRLEMEAPV
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	18,553 Da
Sequence Positions	1-170, Full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q8Z7Q5
Species	Salmonella typhi
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for hpaC recombinant protein	MBS1408882 is a recombinant protein targeting hpaC. Also known as Recombinant Salmonella typhi 4-hydroxyphenylacetate 3-monooxygenase reductase component (hpaC). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of hpaC recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for hpaC. It may not necessarily be applicable to this product.

NCBI GI #	16759978
NCBI GeneID	1247543
NCBI Accession #	NP_455595.1
UniProt Primary Accession #	Q8Z7Q5

GenBank Nucleotide #	NC_003198.1
NCBI Official Full Name	4-hydroxyphenylacetate 3-monooxygenase coupling protein
NCBI Official Symbol	hpaC
UniProt Protein Name	4-hydroxyphenylacetate 3-monooxygenase reductase component
UniProt Synonym Protein Names	4-HPA 3-monooxygenase small component; Flavin:NADH reductase
Protein Family	4-hydroxyphenylacetate 3-monooxygenase reductase
UniProt Gene Name	hpaC
NCBI Protein Information	4-hydroxyphenylacetate 3-monooxygenase coupling protein
UniProt Comments for hpaC	Catalyzes the reduction of free flavins (FMN, FAD and riboflavin) by NADH. Subsequently, the reduced flavins diffuse to the large HpaB component or to other electron acceptors such as cytochrome c and Fe3+ ion ().
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