

Recombinant *Pseudomonas putida*(*Arthrobacter siderocapsulatus*) Creatinine amidohydrolase (crnA)

Catalog No: #AP70936

Package Size: #AP70936-1 20ug #AP70936-2 100ug #AP70936-3 1mg

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Description

Product Name	Recombinant <i>Pseudomonas putida</i> (<i>Arthrobacter siderocapsulatus</i>) Creatinine amidohydrolase (crnA)
Host Species	<i>E.coli</i>
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1-260aaSequence Info:Full Length
Other Names	Creatininase
Accession No.	P83772
Calculated MW	55.6 kDa
Tag Info	N-terminal GST-tagged
Target Sequence	MSKSVFVGELTWKEYEARVAAGDCVLMPLVGALEQHGHHMCMNVDVLLPTAVCKRVAERIGALVMPGLQYG YKSQQKSGGGNHFP GTTSLDGATLTGTVQDIIRLARHGARRLVLMNGHYENSMFIVEGIDLALRELRYAGIQ DFKVVVLSYWDFVKDPAVIQQLYPEGFLGWDIEHGGVFETSLMLALYPDLVDLDRVVDHPPATFPPYDVFPVD PARTPAPGTLSSAKTASREKGELILEVCVQGIADAIREEFPT
Formulation	Tris-based buffer50% glycerol
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°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

Cyclic amidohydrolase that catalyzes the reversible conversion of creatinine to creatine. Is also active toward glycohydrazide, though the reaction rate is very low, but it is completely inert toward hydantoin and its derivatives.

References

Substitution of Glu122 by glutamine revealed the function of the second water molecule as a proton donor in the binuclear metal enzyme creatininase.Yamashita K., Nakajima Y., Matsushita H., Nishiya Y., Yamazawa R., Wu Y.F., Matsubara F., Oyama H., Ito K., Yoshimoto T.J. Mol. Biol. 396:1081-1096(2010)Research Topic:Others

Note: This product is for in vitro research use only and is not intended for use in humans or animals.