

Acetylnithine Deacylase Protein, *Shigella sonnei*

Cat. No.:	HY-P702136
Synonyms:	dapE; Succinyl-diaminopimelate desuccinylase; SDAP desuccinylase; N-succinyl-LL-2; 6-diaminoheptanedioate amidohydrolase
Species:	Others
Source:	E. coli
Accession:	Q3YZ81 (M1-A375)
Gene ID:	/
Molecular Weight:	

PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of 50 mM Tris-HCl, pH7.5, 200 mM NaCl, 20% glycerol.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	Please use rapid thawing with running water to thaw the protein.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	Acetylnithine Deacylase is an enzyme that catalyzes the hydrolysis of N-succinyl-L,L-diaminopimelic acid (SDAP), resulting in the formation of succinate and LL-2,6-diaminoheptanedioate (DAP). This reaction is a key step in bacterial lysine biosynthesis and the production of meso-diaminopimelic acid, a critical component of bacterial cell walls. By breaking down SDAP, acetylnithine deacylase plays a crucial role in regulating the biosynthetic pathways responsible for the synthesis of lysine and its derivatives, which are essential for bacterial growth and cell wall integrity. This enzymatic activity contributes to the overall maintenance of bacterial cell structure and function.
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Caution: Product has not been fully validated for medical applications. For research use only.

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