Product Data Sheet

Proteins



SPEA Protein, E.coli (His)

Cat. No.: HY-P71695

Synonyms: speA; b2938; JW2905; Biosynthetic arginine decarboxylase; ADC; EC 4.1.1.19

Species: E.coli Source: E. coli

P21170 (3D-656E) Accession:

Gene ID: 947432

Molecular Weight: Approximately 77.4 kDa

PROPERTIES

AA Sequence

AA Sequence				
72.004.000	DDMSMGLPSS	AGEHGVLRSM	QEVAMSSQEA	SKMLRTYNIA
	WWGNNYYDVN	ELGHISVCPD	PDVPEARVDL	AQLVKTREAQ
	GQRLPALFCF	PQILQHRLRS	INAAFKRARE	SYGYNGDYFL
	VYPIKVNQHR	RVIESLIHSG	EPLGLEAGSK	AELMAVLAHA
	GMTRSVIVCN	GYKDREYIRL	ALIGEKMGHK	VYLVIEKMSE
	IAIVLDEAER	LNVVPRLGVR	ARLASQGSGK	WQSSGGEKSK
	FGLAATQVLQ	LVETLREAGR	LDSLQLLHFH	LGSQMANIRD
	IATGVRESAR	FYVELHKLGV	NIQCFDVGGG	LGVDYEGTRS
	QSDCSVNYGL	NEYANNIIWA	IGDACEENGL	PHPTVITESG
	RAVTAHHTVL	VSNIIGVERN	EYTVPTAPAE	DAPRALQSMW
	ETWQEMHEPG	TRRSLREWLH	DSQMDLHDIH	IGYSSGIFSL
	QERAWAEQLY	LSMCHEVQKQ	LDPQNRAHRP	IIDELQERMA
	DKMYVNFSLF	QSMPDAWGID	QLFPVLPLEG	LDQVPERRAV
	LLDITCDSDG	AIDHYIDGDG	IATTMPMPEY	DPENPPMLGF
	FMVGAYQEIL	GNMHNLFGDT	EAVDVFVFPD	GSVEVELSDE
	GDTVADMLQY	VQLDPKTLLT	QFRDQVKKTD	LDAELQQQFL
	EEFEAGLYGY	TYLE		
Appearance	Lyophilized powder.			
Formulation	Local iliand after autoraina dialusia ancient adution in Tria basad buffer 500/ alusanal			
Formulation	Lyophilized after extensive dialysis against solution in Tris-based buffer, 50% glycerol.			
Endotoxin Level	<1 EU/μg, determined by LAL method.			
LIIdotoxIII Levet	<1 EO/μg, determined by LAL method.			
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O.			
Reconstitution	ic is not recommended to reconstitute to a concentration less than 100 μg/IIIL III duli 20.			
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is			
Storage & Stability	recommended to freeze aliquots at -20°C or -80°C for extended storage.			
	recommended to recept any abit at 20 cor overlor extended storage.			
Shipping	Room temperature in continental US; may vary elsewhere.			
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DESCRIPTION

Background

SPEA, also known as agmatine ureohydrolase, is an enzyme that plays a central role in the biosynthesis of agmatine from arginine. Specifically, SPEA catalyzes the conversion of arginine into agmatine, a process crucial in the metabolism of nitrogen-containing compounds. This enzymatic activity is a key step in the arginine catabolic pathway, contributing to the generation of agmatine, a biogenic amine with diverse physiological functions. It has to underscore SPEA's role in the synthesis of agmatine, shedding light on its importance in cellular nitrogen metabolism and the broader implications of agmatine in various biological processes.

Caution: Product has not been fully validated for medical applications. For research use only.

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