

BIO3 Protein, *S. cerevisiae*, Recombinant (His & Myc)

General Information

Synonyms:	Diaminopelargonic acid synthase;7,8-diamino-pelargonic acid aminotransferase (DAPA AT; DAPA aminotransferase);Adenosylmethionine-8-amino-7-oxononanoate aminotransferase; BIO3
Protein Construction:	1-480 aa
Species:	<i>Saccharomyces cerevisiae</i>
Expression Host:	<i>E. coli</i>
Accession:	P50277
Molecular Weight:	58.7 kDa (predicted)
AA Sequence:	MSQEISYTPDVAELLDFFDKKHIWHPYTSLSPLNVYPVKS AHGCKLVLDTDS PVDVEVIDAMSSWWCVIHGY NNPELNEALTKQMLKFSHVLLGGFTHKGAVNLVQKLLKVIDEPSLQYCF LADSGSVAVEVALKMALQSNMSG EATKNRTKFLTIKNGYHGDTFGAMSVCDPENSMHHIYNDRLSENIFAQAPSIVDGLPTSQNGFEDHWNAAEEV TDLKKQFELHSDKICAVILEPILQGAGLRPYHPQFLIEVQKLCNQYDVL FIMDEIATGFGRTGEIFAFKHCQKY QDQHGISP SDQIKVVPDILCVGKGLTSGYMTMSAVVVNDKVASRISSPNSPTGGCFMHGPTFMGNALAC SVA EKSM DILLRGEWRKQVSAIENQIYRELYQYIKNP DNGLIGTVVKRVS VIGAVGIVELYKKTDP EWFQKKFISKGV HIRPFNCLCYIMPPYVITTEELTKVNQVLIEVLHEWKSHINQ

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Catalyzes the transfer of the alpha-amino group from S-adenosyl-L-methionine (SAM) to 7-keto-8-aminopelargonic acid (KAPA) to form 7,8-diaminopelargonic acid (DAPA). It is the only aminotransferase known to utilize SAM as an amino donor.

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