

Recombinant Arabidopsis thaliana Lycopene beta cyclase, chloroplastic



Catalog No: #AP73066

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Package Size: #AP73066-1 20ug #AP73066-2 100ug #AP73066-3 1mg

Description

Product Name	Recombinant Arabidopsis thaliana Lycopene beta cyclase, chloroplastic
Brief Description	Recombinant Protein
Host Species	Yeast
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:81-501aaSequence Info:Full Length
Accession No.	Q38933
Uniprot	Q38933
GeneID	820185;
Calculated MW	49.1 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	QVVDLAIVGGGPAGLAVAQQVSEAGLSVCSIDPSPKLIWPNNYGVWVDEFEAMDLLDCLDTTWSGAVVYVDE GVKKDLSPYGRVNRKQLKSKMLQKCITNGVKFHQSKVTNNVVHEEANSTVVCSDGVKIQASVVLDTATGFSRC LVQYDKPYNPGYQVAYGIVAEVDGHPFDVDMVFMWDRDKHLDSEYELKERNKIPTFLYAMPFSSNRIFLEE TSLVARPGLRMEDIQERMAARKHLGINVKRIEEDERCVIPMGGPLVLPQRRVVGIGGTAGMVHPSTGYMVAR TLAAPIVANAIVRYLGSPSSNSLRGDQLSAEVWRDLWPIERRRQREFFCFGMIDLLDLDATRRFFDAFFDL QPHYWHGFLSSRLFLPELLVFGLSLFASHASNTSRLEIMTKGTVPLAKMINNLVQDRD
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

Catalyzes the double cyclization reaction which converts lycopene to beta-carotene and neurosporene to beta-zeacarotene.

References

Gene structure and regulation of the carotenoid biosynthesis pathway in Arabidopsis thaliana.Giuliano G., Rosati C., Santangelo G.Sequence and analysis of chromosome 3 of the plant Arabidopsis thaliana.Salanoubat M., Lemcke K., Rieger M., Ansorge W., Unselde M., Fartmann B., Valle G., Bloecker H., Perez-Alonso M., Obermaier B., Delseny M., Boutry M., Grivell L.A., Mache R., Puigdomenech P., De Simone V., Choisne N., Artiguenave F. , Robert C., Brottier P., Wincker P., Cattolico L., Weissenbach J., Saurin W., Quetier F., Schaefer M., Mueller-Auer S., Gabel C., Fuchs M., Benes V., Wurmbach E., Drzonek H., Erfle H., Jordan N., Bangert S., Wiedelmann R., Kranz H., Voss H., Holland R., Brandt P., Nyakatura G., Vezzi A., D'Angelo M., Pallavicini A., Toppo S., Simionati B., Conrad A., Hornischer K., Kauer G., Loehnert T.-H., Nordsiek G., Reichelt J., Scharfe M., Schoen O., Bargues M., Terol J., Climent J., Navarro P., Collado C., Perez-Perez A., Ottenwaelder B., Duchemin D., Cooke R., Laudie M., Berger-Llauro C., Purnelle B., Masuy D., de Haan M., Maarse A.C., Alcaraz J.-P., Cottet A., Casacuberta E., Monfort A., Argiriou A., Flores M., Liguori R., Vitale D., Mannhaupt G., Haase D., Schoof H., Rudd S., Zaccaria P., Mewes H.-W., Mayer K.F.X., Kaul S., Town C.D., Koo H.L., Tallon L.J.,

Jenkins J., Rooney T., Rizzo M., Walts A., Utterback T., Fujii C.Y., Shea T.P., Creasy T.H., Haas B., Maiti R., Wu D., Peterson J., Van Aken S., Pai G., Militscher J., Sellers P., Gill J.E., Feldblyum T.V., Preuss D., Lin X., Nierman W.C., Salzberg S.L., White O., Venter J.C., Fraser C.M., Kaneko T., Nakamura Y., Sato S., Kato T., Asamizu E., Sasamoto S., Kimura T., Idesawa K., Kawashima K., Kishida Y., Kiyokawa C., Kohara M., Matsumoto M., Matsuno A., Muraki A., Nakayama S., Nakazaki N., Shinpo S., Takeuchi C., Wada T., Watanabe A., Yamada M., Yasuda M., Tabata S. Nature 408:820-822(2000) Research Topic: Others

Note: This product is for in vitro research use only