

ERG26 Protein, *S. cerevisiae*, Recombinant (His & Myc)

General Information

Synonyms:	Sterol-4-alpha-carboxylate 3-dehydrogenase ERG26, decarboxylating; C-3 sterol dehydrogenase ERG26; C-4 decarboxylase ERG26; ERG26; decarboxylating; Ergosterol biosynthetic protein 26
Protein Construction:	1-349 aa
Species:	SVG- <i>Saccharomyces cerevisiae</i>
Expression Host:	<i>E. coli</i>
Accession:	P53199
Molecular Weight:	46.1 kDa (predicted)
AA Sequence:	MSKIDSVLIIGGSGFLGLHLIQFFDINPKPDIHIFDVRDLPEKLSKQFTFNVDIKFHKGDLTSPDDMENAINES KANVVVHCASPMHGQNPDIYDIVNVKGRNVIDMCKKCGVNILVYSSAGVIFNGQDVHNADETWPIPEVP MDAYNETKAI AEDMVLKANDPSSDFYTVLRPAGIFGPGDRQLVPLRQVAKLGQSKFQIGDNNNLFDWTY AGNVADAHVLAQAQKLLDPKTRTAVSGETFFITNDTPTYFWALARTVWKADGHIDKHVIVLKRPAICAGYLSE WVSKMLGKEPGLTPFRVKIVCAYRYHNIKAKKLLGYTPRVGIEGINKTLAWMDEGL

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

Essential enzyme in the ergosterol biosynthetic pathway. Part of a 3 enzyme system that catalyzes the sequential removal of the 2 methyl groups at the sterol C-4 position, converting 4,4-dimethylzymosterol to zymosterol. Catalyzes the second step, an oxidative decarboxylation that results in a reduction of the 3-beta-hydroxy group at the C-3 carbon to an oxo group.

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