Creative Enzymes®

# protein farnesyltransferase

*Cat. No. EXWM-2795*

*Lot. No.* (See product label)

## Introduction

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| ***Description*** | This enzyme, along with protein geranylgeranyltransferase types I (EC 2.5.1.59) and II (EC 2.5.1.60), constitutes the protein prenyltransferase family of enzymes. Catalyses the formation of a thioether linkage between the C-1 of an isoprenyl group and a cysteine residue fourth from the C-terminus of the protein. These protein acceptors have the C-terminal sequence CA1A2X, where the terminal residue, X, is preferably serine, methionine, alanine or glutamine; leucine makes the protein a substrate for EC 2.5.1.59. The enzymes are relaxed in specificity for A1, but cannot act if A2 is aromatic. Substrates of the prenyltransferases include Ras, Rho, Rab, other Ras-related small GTP-binding proteins, γ-subunits of heterotrimeric G-proteins, nuclear lamins, centromeric proteins and many proteins involved in visual signal transduction. A zinc metalloenzyme that requires Mg2+ for activity. |
| ***Synonyms*** | FTase |

## Product Information

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| ***Form*** | Liquid or lyophilized powder |
| ***EC Number*** | EC 2.5.1.58 |
| ***CAS No.*** | 131384-38-8 |
| ***Reaction*** | farnesyl diphosphate + protein-cysteine = S-farnesyl protein + diphosphate |
| ***Notes*** | This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications. |

## Storage and Shipping Information

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| ***Storage*** | Store it at +4 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃. |