

## protein farnesyltransferase

Cat. No. EXWM-2795

Lot. No. (See product label)

### Introduction

**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,  $\gamma$ -subunits of heterotrimeric G-proteins, nuclear lamins, centromeric proteins and many proteins involved in visual signal transduction. A zinc metalloenzyme that requires  $Mg^{2+}$  for activity.

**Synonyms** FTase

### Product Information

**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

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