Creative Enzymes®

protein geranylgeranyltransferase type II

Cat. No. EXWM-2798

Lot. No. (See product label)

Introduction

Description	This enzyme, along with protein farnesyltransferase (EC 2.5.1.58) and protein geranylgeranyltransferase type I (EC 2.5.1.59), constitutes the protein prenyltransferase family of enzymes. Attaches geranylgeranyl groups to two C-terminal cysteines in Ras-related GTPases of a single family, the Rab family (Ypt/Sec4 in lower eukaryotes) that terminate in XXCC, XCXC and CCXX motifs. Reaction is entirely dependent on the Rab substrate being bound to Rab escort protein (REP). Post-translational modification with the geranylgeranyl moiety is essential for Rab GTPases to be able to control the processes of membrane docking and fusion.
Synonyms	GGTaseII; Rab geranylgeranyltransferase; RabGGTase; geranylgeranyl-diphosphate,geranylgeranyl-diphosphate:protein-cysteine geranyltransferase

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 2.5.1.60
CAS No.	135371-29-8
Reaction	geranylgeranyl diphosphate + protein-cysteine = S-geranylgeranyl-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 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.