

Active Recombinant Rat Pggt1b, GST-tagged

Cat. No. Pggt1b-325R **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Rat
Source	E.coli
Description	GGTase-I (Geranylgeranyltransferase-I) catalyzes the transfer of the farnesyl and geranylgeranyl groups from farnesyl and geranylgeranyl-diphosphate to proteins containing a C-terminal CaaX motif, where 'C' is a conserved cysteine that is the site of farnesyl modification, 'a' is usually an aliphatic amino acid, and 'X' is leucine or phenylalanine. Farnesyltransferase (FT) and GGTase-I are closely related, sharing a common subunit and 30% identity in their β subunits. The GST-Tag facilitates the protein's application in typical GST pull-down assays.
Form	Liquid. Supplied in 25 mM HEPES, pH 7.2, 25 mM NaCl and 5 mM DTT.
Purity	> 90% by SDS-PAGE.
Activity	1 pmol of GGTase-I will transfer 5 pmol of Farnesyl to RhoA in 15 min at 37°C.
Usage	For in vitro use only.
Storage	Quality guaranteed for 12 months store at - 80°C. Avoid freeze / thaw cycles.

GENE INFORMATION

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Gene Name	Pggt1b protein geranylgeranyltransferase type I, beta subunit [Rattus norvegicus]
Synonyms	Pggt1b; protein geranylgeranyltransferase type I, beta subunit; geranylgeranyltransferase type 1 beta; geranylgeranyltransferase type I (GGTase-I)
Gene ID	81746
mRNA Refseq	NM_031082
Protein Refseq	NP_112344
UniProt ID	P53610
Chromosome Location	q11
Function	CAAX-protein geranylgeranyltransferase activity; drug binding; isoprenoid binding; metal ion binding; peptide binding; prenyltransferase activity; protein binding; transferase activity; zinc ion binding

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