

Recombinant PreScission Protease (rPPase)

Product Information

Cat#	DIA-838
Descriptions	Recombinant PreScission Protease (rPPase) is a genetically engineered cysteine protease that recognizes the specific octapeptide sequence LEVLFQGP and cleaves between glutamine and glycine residues, enables highly specific removal of GST fusion tags, and exhibits excellent activity under low-temperature reaction conditions.
Applications	Recombinant PreScission Protease (rPPase) is applied in GST tag removal detection kits and fusion protein processing quality control reagent development.
CAS No.	461-03-1816
Enzyme Source	Escherichia coli
Synonyms	3C protease, Picornain 3C, PSP
Form	Sterile colorless liquid 50 mM Tris-HCl, pH 7.0 (at 25°C), 150 mM NaCl, 1 mM EDTA, 1 mM dithiothreitol. Chill to 5°C prior to use.
Reaction	PreScission protease is a cysteine protease derived from human rhinovirus – HRV3C Protease. rPP is a fusion protein of glutathione S-transferase (GST) and human rhinovirus (HRV) type 14 3C protease. It specifically recognizes the amino acid sequences which include the core site of Leu-Phe-Gln-Gly-Pro and cleaves between the Gln and Gly residues.
Activity Definition	One unit is defined as the amount of enzyme needed to cleave 100 ug of fusion protein in 16 hours to 90% completion at 5°C in a buffer containing 50 mM Tris-HCl, pH 7.0, 150 mM NaCl, 1 mM EDTA, and 1 mM DTT.
Package	100 IU, 250 IU