Proteinase K Enzyme

PRODUCT OVERVIEW

Product Name	Proteinase K, Enzyme
Full Product Name	Proteinase K
ISO Certification	Manufactured in an ISO 13485:2016 Certified Laboratory.
Related Product Information for Proteinase K enzyme	Proteinase K is a broad-spectrum endopeptidase derived from the fungus Tritirachium album. The native enzyme has a size of 26-28 kilodaltons and preferentially cleaves peptide bonds adjacent to aliphatic and aromatic amino acid residues of both native and denatured proteins. Proteinase K can be used to enhance cell and viral particle lysis in combination with a variety of detergents (Tween 20, Triton X-100, SDS, Sarkosyl) and denaturants (guanidinium, urea) during nucleic acid extraction. Proteinase K is stable over a wide range of pH values (pH 4-12) and temperatures (30-60 degree C) with optimal activity at pH 8.0 and 55 degree C. Enzyme activity is maintained in the presence of reductants such as 2-mercaptoethanol and DTT (? 5 mM), as well as the metal ion chelator EDTA (? 50 mM). Note that Proteinase K is sensitive to common serine protease inhibitors including PMSF, AEBSF and DFP, which should be left out of lysis buffers used for nucleic acid extraction.
Other Notes	Small volumes of Proteinase K enzyme vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for Proteinase K purchase	MBS308049 is an enzyme targeting Proteinase K.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Proteinase K. It may not necessarily be applicable to this product.

Protein Family	Proteinase
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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