

Proteinase K solution (Recombinant)



Proteinase K is a type of endopeptidase that has a wide range of cleavage activity and efficiently degrades proteins. In particular, it quickly inactivates nucleases, making it ideal for nucleic acid purification.



Characteristics

- Ideal for nucleic acid purification
- Recombinant enzyme with little lot-to-lot variation
- Solution type for easy preparation
- Long shelf life

Product Summary

origin	purified from <i>Pichia pastoris</i> expressing serine protease gene came from <i>Tritirachium album</i>
properties	colorless and clear liquid
composition	<ul style="list-style-type: none">• enzyme quantity: approx. 20 mg/mL• 10 mM Tris-HCl (pH 7.5)• 50% glycerol• calcium acetate (stabilizer)
activity (37°C, hemoglobin)	≥ 600 U/mL ≥ 35 U/mg
DNase activity RNase activity	undetectable undetectable
storage temperature	2 ~ 8°C
unopened shelf life	guaranteed for 18 months after manufacturing date

Product Name	Package Size	Product No.
Proteinase K solution (recombinant)	2 mL	34060-96
	2 mL×6	34060-97
	100 mL	34060-23

Basic information about Proteinase K

enzyme classification	serine protease came from <i>Tritirachium album</i> (28.9 kDa) [EC 3.4.21.64]
available condition	pH 4.0 - 12.5 (ideal pH 7.5 - 10.5), temp. 25 - 65°C
activator	urea, 1% SDS (sodium dodecyl sulfate)
inhibitor	Diiodopropyl Fluorophosphate (DFP), Phenylmethylsulfonyl Fluoride (PMSF), Hg ²⁺
note	It is not inactivated by metal chelators (e.g. EDTA), thiol reagents, or inhibitors of trypsin and chymotrypsin.

Related information

The following DNase-free or RNase-free reagents are suitable for molecular biology experiments with DNA or RNA.

● Good Buffers, Buffer Solution

Product Name	Package Size	Product No.
2-Amino-2-hydroxymethyl-1,3-propanediol	100 g	40326-24
2,2-Bis(hydroxymethyl)-2,2',2''-nitrilotriethanol	25 g	04230-33
N-(2-Hydroxyethyl)piperazine-N'-2-ethanesulfonic acid	100 g	18356-23
3-Morpholinopropanesulfonic acid	100 g	25720-23
Piperazine-1,4-bis(2-ethanesulfonic acid)	100 g	32564-23
0.5M EDTA	1 L	14566-08
10×TE buffer (Tris-EDTA)	500 mL	46512-08
1M Tris-HCl, pH 8.0	500 mL	49327-08

● Surfactants, Denaturants

Product Name	Package Size	Product No.
Triton X-100	100 g	40333-23
Tween 20	100 g	40350-23
Guanidine hydrochloride	100 g	17051-24
Urea	100 g	43009-23



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