

Instructions for Use

Life Science Kits & Assays

innuPREP Proteinase K

1 Product specifications

- Molecular Cloning Grade
- Specific activity: >30 U/mg
- Cloned from *Engyodontium album*
- Proteolytic degradation of biologic material
- Deactivation of DNase and RNase

2 Intended use

The innuPREP Proteinase K is a broad-spectrum serine peptidase (EC 3.4.21.64). The predominant site of cleavage is the peptide bond adjacent to the carboxyl group of aliphatic and aromatic amino acids with blocked alpha amino groups. The Proteinase K can be inactivated by diisopropyl fluorophosphates (DFP) or phenyl methane sulfonyl fluoride (PMSF).

The Proteinase K is shipped as a lyophilisate and has to be reconstituted with ddH₂O.

For research only!

3 Product and order number

Name	Amount	Order-no.
innuPREP Proteinase K	6 mg	845-CH-0010006
innuPREP Proteinase K	30 mg	845-CH-0010030

4 Storage conditions

The innuPREP Proteinase K is shipped at ambient temperature.

Store lyophilized **Proteinase K** at 4 °C to 8 °C! Divide dissolved **Proteinase K** into aliquots and storage at -22 °C to -18 °C is recommended. Repeated freezing and thawing will reduce the activity dramatically!

5 Safety precautions

The innuPREP Proteinase K shall only be handled by educated personnel in a laboratory environment. The compliance with the specified procedure is absolutely mandatory when performing this assay.

Reagents should be stored in their original containers at the indicated temperatures. Do not replace individual components with those from different batches or kits. Note the indicated expiration dates.

Do not eat, drink or smoke while handling the product.

Wear protective clothing and safety gloves.

All samples and test materials should be handled and disposed of as infectious material, in accordance with regulatory requirements.

Reagent containers that have not come in contact with potentially infectious material may be disposed of along with ordinary laboratory waste.

6 Delivered components

IMPORTANT

Store lyophilized **Proteinase K** at 4 °C to 8 °C! Divide dissolved **Proteinase K** into aliquots and storage at -22 °C to -18 °C is recommended. Repeated freezing and thawing will reduce the activity dramatically!

Components	6 mg	30 mg
Order number	845-CH-0010006	845-CH-0010030
Proteinase K	for 1 x 0.3 ml working solution	for 1 x 1.5 ml working solution
ddH ₂ O	2 ml	2 ml

GHS classification

7 GHS classification

Proteinase K	Proteinase, engyodontium album		315, 317, 319, 334, 335	101, 102, 103, 261, 280, 305+351+338, 342+311, 405, 501
Danger				

7.1 Hazard phrases

315	Causes skin irritation.
317	May cause an allergic skin reaction.
319	Causes serious eye irritation.
334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
335	May cause respiratory irritation.

7.2 Precaution phrases

101	If medical advice is needed, have product container or label at hand.
102	Keep out of reach of children.
103	Read label before use.
261	Avoid breathing dust/fume/gas/mist/vapors/spray.
280	Wear protective gloves/protective clothing/ eye protection/face protection.
405	Store locked up.
501	Dispose of contents/container in accordance with local/regional/national/international regulations.
342+311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

8 Reconstitution of Proteinase K

NOTE

The **Proteinase K** is shipped as a lyophilisate and has to be reconstituted with **ddH₂O** before usage.

1. Before opening the vial with **Proteinase K** ensure that the lyophilisate (white powder) is at the bottom of the vial. Otherwise centrifuge the tube for a few seconds.
2. Carefully open the vial and add **ddH₂O** according to package size ordered (see table below).

Amount of Proteinase K	ddH ₂ O to be added
6 mg	0.3 ml
30 mg	1.5 ml

3. Close the lid of the vial and mix thoroughly until completely dissolved.
4. Store as described above.

9 Related Products

Name	Amount	Order No.
Additional products for nucleic acid purification		
innuPREP Proteinase K	6 mg	845-CH-0010006
	30 mg	845-CH-0010030
Kits for Nucleic acid purification		
smart DNA prep (m)	10 rxn	845-KS-8000010
	50 rxn	845-KS-8000050
smart Blood DNA Midi prep (m)	10 rxn	845-KS-8100010
	50 rxn	845-KS-8100050
innuPREP DNA Mini Kit	10 rxn	845-KS-1040010
	50 rxn	845-KS-1040050
	250 rxn	845-KS-1040250

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