

Specification

Name

Proteinase K



CAS NO

39450-01-6

Appearance

White powder

Introduction:

Proteinase K is a human protein found in the cell nucleus that binds to pre-messenger RNA(mRNA) as a component of heterogeneous ribonucleoprotein particles. In molecular biology Proteinase K is a broad-spectrum serine protease.

High Lights

- Free of RNase and DNase
- Stay active in denaturant, for example: Urea and SDS
- Stay active in metal-chelator, for example: EDTA
- Stay active in a pH range between 4-12.5.
- The best pH range should be 7.5-8.0
- Stay active in a temperature range between 50oC-65oC
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- Soluble in ddH2O ➤ Enzyme activity: ≥ 30U/mg
- Specific activity: ≥ 40U/mg

Application High Lights

1, Proteinase K is a serine protease that is used to digest proteins and remove contamination from nucleic acid preparations.

2, In molecular biology research, adding proteinase K to nucleic acid preparations inactivates nucleases that could degrade DNA or RNA during isolation and purification applications.