

Virus purification and detection products

Pannarase Nucleases

Effective viscosity reduction and removal of nucleic acids from protein solutions

Product Introduction

Pannarase Nuclease is a genetically engineered endonuclease from *Serratia marcescens*, which can completely digest nucleic acids to 5'–monophosphate terminated oligonucleotides 2 to 5 bases in length. It degrades all forms of DNA and RNA (single stranded, double stranded, linear and circular) while having no proteolytic activity.

The enzyme is functional between pH 6 and 10 and from 0–42°C. The ability of Pannarase to rapidly hydrolyze nucleic acids makes the enzyme an excellent choice for viscosity reduction to reduce processing time and increase yields of protein.

Product Advantages

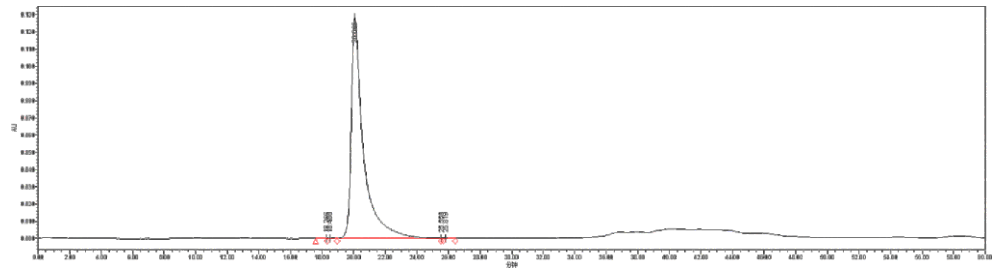
- Animal origin-free, without ampicillin
- High purity(>99%), Excellent unit enzyme activity
- Advanced manufacturing process, non-traditional His-tag purification, exclusion of metal ion risks
- Low endotoxin level and strict quality control criteria to ensure unit enzyme activity and batch-to-batch stability

Product Application

Widely used in virus purification processes, such as lentivirus, adenovirus, lysovirus, etc. Removal of nucleic acids from biological products. Reduce the viscosity of cell lysates and cell supernatants to saving processing time and improve protein yields

Test Data

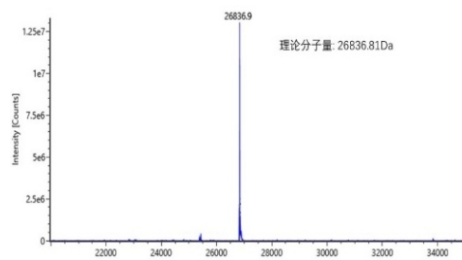
SEC-HPLC purity determination



Pannarase SEC-HPLC purity analysis

SEC-HPLC result showed no aggregate formation, and the purity reached 99.72%.

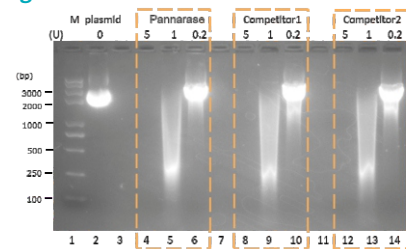
LC-MS Test



Pannarase LC-MS chromatograms

As analyzed by LC-MS, the protein molecule was consistent with the theoretical value, there was no impurity peak, and the structure was homogeneous.

Enzyme digestion Test



Comparison of digestion of nucleases from different brands

The plasmid DNA concentration was 1 mg/ml in the 20 uL reaction system. Compared with competitors, Pannarase Nuclease had excellent digestion activity.

Order Options

Cat No.	Grade	Name	Size
CYG002F0010	GMP Grade	Pannarase Nucleases	100,000 U
CYG002F0050	GMP Grade	Pannarase Nucleases	500,000 U
CYG002F0500	GMP Grade	Pannarase Nucleases	5,000,000 U
CY002F0010	RUO(Research Use Only) Grade	Pannarase Nucleases	100,000 U
CY002F0050	RUO(Research Use Only) Grade	Pannarase Nucleases	500,000 U
CY002F0500	RUO(Research Use Only) Grade	Pannarase Nucleases	5,000,000 U

Provide classic products in pursuit of high quality