

Sequencing Grade V8 Protease

Catalog No: #RE014

Package Size: #RE014-1 50ug #RE014-2 100ug #RE014-3 1mg #RE014-4 2mg

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Description

Product Name	Sequencing Grade V8 Protease
Purification	Purity(SDS-PAGE): Single major band
Species Reactivity	β 5.0 AU /mg pro.
Target Name	Sequencing grade recombinant V8 protease;Staphylococcus aureus strain V8
Other Names	V8 protease;Endoproteinase Glu-C;Endoproteinase Asp-C
SDS-PAGE MW	24.0 \pm 2.4 kDa
Storage	Stability of storage: Recombinant V8 protease should be stored under 2-8°C in sealed container.It is stable within 6 months after dissolved with 1mM HCl and 50mM HAC at -20°C or below. It is stable within 2 months after dissolved with 1mM HCl and 50mM HAC at 4°C.85% activity above can be kept after dissolved with 1mM HCl and 50mM HAC at 25°C or 37°C 12h. It is no activity loss after 10 times repeated freezing and thawing.Stability of transport: The product is stable by blue ice insulation transport.

Product Description

Recombinant V8 protease is the serine protease family and can specifically hydrolyzing glutamic acid or aspartic acid residues carboxy side peptide bonds. The Glu carboxy terminal peptide bond can be identified and cleaved in CH₃COONH₄ buffer (pH 7.8) and NH₄HCO₃ (pH 4.0).Identify and cleave the Glu or Asp carboxy terminal peptide bond in phosphate buffer (pH 7.8),and the hydrolysis rate of Glu was higher than that of Glu Asp. Recombinant V8 protease has activity between pH 4.0-10.0, and the optimum pH is 8.0-8.5. It can be used alone or in combination with other proteases when used in protein digestion, peptide profiling and peptide mass fingerprinting analysis. The inhibitors of V8 protease are diisopropylfluorophosphate (DFP), α 2-macroglobulin and Na-P-tosyl-L-lysine chloromethyl ketone (TLCK).

Note: This product is for in vitro research use only and is not intended for use in humans or animals.