

α-Mannosidase

Product Information

Cat#	DIA-907
Descriptions	α-Mannosidase hydrolyzes α-linked mannose glycosidic bonds in high-mannose and complex type N-glycans, participates in the stepwise processing of N-linked glycan maturation, and acts as an essential tool enzyme for glycoprotein glycan trimming and mannose metabolism research.
Applications	α-Mannosidase is applied in N-glycan trimming detection kits and mannose metabolism pathway assay reagent development.
CAS No.	9025-42-7
Enzyme Commission Number	EC 3.2.1.24
Molecular Weight	Approximately 220 kDa
Synonyms	ALPHA-MANNOSIDASE; ALPHA-D-MANNOSIDE MANNOHYDROLASE; ALPHA1,6-MANNOSIDASE; ALPHA1-2,3-MANNOSIDASE; EC3.2.1.24; a1,2Mannosidase,Trichodermareesei,Recomb.,Saccharomyces; a1,6-Mannosidase,Xanthomonassp.,Recomb.,E.coli; a1-2,3-Mannosidase,Recomb.,E.coli
Form	Suspension in 50 mM PB buffer, pH 6.5.
Activity	≥ 30 U/mg protein
Activity Definition	One unit of activity is defined as the amount of enzyme that released 1 μmol of p-nitrophenol per min at pH 6.0 and 60°C using p-nitrophenyl α-D-mannopyranoside as a substrate.
Assay	Michaelis constant: 5.2×10^{-4} mol/L (p-nitrophenyl α-D-mannopyranoside) Physical form: Suspension in 50 mM PB buffer pH 6.5 6.0 70 °C 5~7 (25 °C 24 hrs) 60 °C (pH 6.0 24hrs) EDTA swainsonine
Storage	Store at 2-8°C for 2 years. Sealed and away from light.