

Insulin Degrading Enzyme (His•Tag) from Rat, Recombinant

Cat. No. NATE-0849

Lot. No. (See product label)

Introduction

Description Insulin Degrading Enzyme (IDE) is a large zinc-binding protease of the M16A metalloprotease subfamily known to cleave multiple short polypeptides that vary considerably in sequence. IDE was first identified by its ability to degrade the B chain of the hormone insulin. This activity was observed over sixty years ago, though the enzyme specifically responsible for B chain cleavage was identified more recently. This discovery revealed considerable amino acid sequence similarity between IDE and the previously characterized bacterial protease pitrilysin, suggesting a common proteolytic mechanism.

Synonyms IDE; Insulin-degrading enzyme; insulysin; insulin protease

Product Information

Species Rat

Source S. frugiperda

Form Liquid

EC Number EC 3.4.24.56

Molecular Weight 110 kDa

Purity >90% by SDS-PAGE

Activity >3 U/mg protein

Buffer In 100 mM potassium phosphate buffer, 20% glycerol, pH 7.3.

Unit Definition One unit is defined as the amount of the enzyme that will catalyze the hydrolysis of 1 μ mol iodinated insulin per h at 37°C, pH 7.3.

Storage and Shipping Information

Storage < -70°C