

Native Bovine Hyaluronidase

Cat. No. NATE-0347

Lot. No. (See product label)

Introduction

Description Hyaluronidase degrades hyaluronan and has been found to be inappropriately regulated during cancer progression. These enzymes randomly cleave β -N-acetylhexosamine-[1 \rightarrow 4] glycosidic bonds in hyaluronic acid, chondroitin, and chondroitin sulfates.

Synonyms hyaluronoglucosaminidase; hyaluronidase; hyaluronoglucosidase; chondroitinase; chondroitinase I; hyaluronate 4-glycanohydrolase; EC 3.2.1.35; 37326-33-3

Product Information

Species Bovine

Source Bovine testes

Form lyophilized powder

EC Number EC 3.2.1.35

CAS No. 37326-33-3

Molecular Weight mol wt ~55 kDa (four subunits of 14 kDa each)

Activity Type I, 750-3000 units/mg solid; Type II, 300-1,000 units/mg; Type III, 3,000-15,000 units/mg solid; Type IV, 400-1000 units/mg solid.

Pathway Chondroitin sulfate degradation, organism-specific biosystem; Chondroitin sulfate degradation, conserved biosystem; Defective B4GALT1 causes B4GALT1-CDG (CDG-2d), organism-specific biosystem

Function hyaluronan synthase activity; hyaluronoglucosaminidase activity; transcription factor binding; enzyme binding; hyaluronic acid binding; hyaluronoglucuronidase activity

Unit Definition One unit will cause a change in A600 of 0.330 per minute at pH 5.7 at 37°C in a 2.0 ml reaction mixture (45 minute assay).

Storage and Shipping Information

Storage -20°C