

### ★ Storage

Store at -20 °C.

Product is stable at -20 °C until expiration date on label.

Storage at 2 - 8 °C is not recommended.

**Avoid repeated freeze-thaw cycles.**

### ★ Contents

- Product manual
- DNase I Solution, 1mg/ml in PBS

ALL PRODUCTS SOLD BY GenDEPOT ARE INTENDED FOR RESEARCH USE ONLY UNLESS OTHERWISE INDICATED. THIS PRODUCT IS NOT INTENDED FOR DIAGNOSTIC OR DRUG PURPOSE

### ★ Introduction

Deoxyribonuclease (DNase) I Solution (1 mg/mL) is useful to reduce or prevent the clumping of concentrated and/or cryopreserved cell suspensions following thawing.

Activity range  $\geq 2000$  Kunitz units per mg of protein. One Kunitz refers to the amount of DNase I required to act on 1 mg/mL of DNA (pH 5.0, 25°C) to produce an increase in absorbance of 0.001 per minute at a wavelength of 260 nm.

### ★ Source

Bovine pancreas.

### ★ Instructions for use

Use the following protocol when cell samples appear to be clumping. This can occur when cells have been frozen and thawed or with enzymatic tissue digestion.

1. For optimal performance, thaw cells using a medium that does not contain a chelator of calcium and magnesium ions such as EDTA.
2. After centrifugation, carefully remove the supernatant and resuspend cells in 0.1 mg/mL of DNase I Solution.
3. Incubate for 15 minutes at room temperature (15 - 25°C).

**Optional :** For optimal cell separation results filter clumpy suspensions through a 30  $\mu\text{m}$  mesh nylon strainer and then resuspend to the appropriate cell concentration in desired medium.

**Optional :** For downstream applications that are sensitive to DNase, wash cells with appropriate DNase-free medium.

### ★ Related Product

Product Name	Cat No
Scryptase	CA110
Trypsin-EDTA (10X), 0.5%	CA015
Trypsin, 2.5% (10X)	CA019
Trypsin-EDTA (1X), 0.5%	CA020