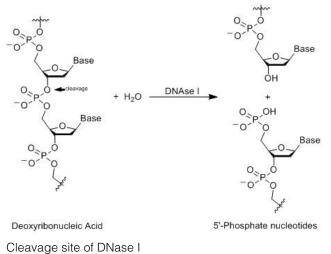
Dissociation Reagents	DNase I	STENCELL <sup>M</sup>
	For digestion of DNA	Scientists Helping Scientists™   WWW.STEMCELL.COM
		TOLL FREE PHONE 1 800 667 0322 • PHONE +1 604 877 0713
Catalog # 07469	25 mg	INFO@STEMCELL.COM • TECHSUPPORT@STEMCELL.COM
07470	100 mg	FOR GLOBAL CONTACT DETAILS VISIT OUR WEBSITE
100-0683	1 g	

### **Product Description**

Deoxyribonuclease I (DNase I) is an endonuclease consisting of a single glycosylated polypeptide chain with two disulfide bonds. DNase is often included in tissue dissociation protocols to digest DNA that has leaked into the dissociation medium as a result of cell damage. DNase I preferentially cleaves phosphodiester linkages adjacent to pyrimidine nucleotides in both single- and double-stranded DNA, yielding polynucleotides with 5'-phosphate and 3'-hydroxyl groups (Bernardi et al.). DNase I has been used for the dissociation of human tissues such as microglia (Klegeris & McGeer), cartilage (Dunham & Koch), colon (Fukushima & Fiocchi), epithelium (Fukushima & Fiocchi), liver (Vatakis et al.), lung (Fujino et al.), and neural (Fuja et al.), and for dissociation of stem cells (Kusuma et al.).

# **Product Information**

Alternative Names:	DNA endonuclease; DNA nuclease; Deoxyribonucleic phosphatase; Pancreatic DNase; Thymonuclease	
Format:	Lyophilized powder	
Storage:	Store at 2 - 8°C.	
Stability:	Stable as supplied for 12 months from date of receipt.	
Reconstitution:	Dissociation reagents can be reconstituted in a balanced salt solution or buffer of choice.	
Molecular Weight:	29.1 kDa	
CAS Number:	9003-98-9	
Optimum pH:	7.8	
Cleavage Site:	DNase I preferentially splits phosphodiester linkages adjacent to a pyrimidine nucleotide. This yields 5'-phosphate terminated polynucleotides with a free hydroxyl group at the 3' position.	



Please refer to the Safety Data Sheet (SDS) for hazard information.

## **Specifications**

Source:	Bovine pancreas
Activity:	$\geq$ 2000 units/mg dry weight. See Notes for further information.

# Dissociation Reagents DNase I



### **Related Products**

For a complete list of dissociation reagents, as well as related products available from STEMCELL Technologies, visit www.stemcell.com or contact us at techsupport@stemcell.com.

#### Notes

ACTIVITY UNITS

1 unit 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.

#### References

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