



PRODUCT HIGHLIGHTS



DEOXYRIBONUCLEASE I

Molecular Biology/Cell Biology

Worthington prepares Deoxyribonuclease I from bovine pancreas at different levels of purity to suit many different applications. Product Codes: DPRF and DPRFS are especially designed for Molecular Biology applications and contain the lowest levels of ribonuclease and protease activity. They are suitable for use in techniques requiring digestion of DNA in the recovery of intact RNA or where the integrity of structural proteins or enzymes must be maintained. Applications have included nick translation, DNA mapping, isolation of nuclear RNA and protein, plasmid construction, and RNA polymerase synthesis of RNA. Additional grades for other applications are listed below.

Recombinant DNase I, Animal Free (AF)

Bovine pancreas is a rich source of RNase which is often found in many commercial DNase preparations. Producing DNase I by recombinant means in an organism with much lower levels of endogenous RNase greatly facilitates purification of an enzyme with undetectable levels of RNase (DR1/DR1S). The processes involved in the production and isolation of recombinant DNase I are completely devoid of animal based components which eliminates the possibility of introducing animal derived pathogens into bioprocessing procedures. Recombinant DNase I is suitable for such applications as:

- Removing genomic DNA from RNA preparations prior to RT-PCR
- Degradation of DNA templates after transcription reactions
- Removing unwanted DNA from samples prior to Northern blotting
- Removing DNA during biopharma and bioprocessing procedures

Description	Activity	Code	Cat. No.	Size	Price
DNase I, Recombinant (AF), Produced in <i>Pichia pastoris</i>, Ribonuclease & Protease Free, Lyophilized Powder. Molecular Biology Grade. Free of RNase and protease. Chromatographically purified and lyophilized powder containing glycine as a stabilizer. Store at 2 - 8°C. PROTECT FROM MOISTURE.	≥ 5,000 Kunitz units per mg protein	DR1	LS006361	10 ku	\$ 174.00
			LS006362	50 ku	735.00
			LS006360	Bulk	Inquire
DNase I, Recombinant (AF), Produced in <i>Pichia pastoris</i>, Ribonuclease & Protease Free, Solution. Molecular Biology Grade. Chromatographically purified to remove RNase and protease. Supplied as a ready-to-use solution at ≥ 2 Kunitz u/μl in 5mM calcium acetate, 4mg/ml glycine, pH 5.0 and 50% glycerol. Includes 10X reaction buffer. Store at -20°C. REQUIRES ICE PACK.	≥ 2 Kunitz units per microliter	DR1S	LS006353	2 ku	\$ 47.00
			LS006355	5x2 ku	188.00
			LS006357	Bulk	Inquire
DNase I, Recombinant (AF), Produced in <i>Pichia pastoris</i>, Bioprocess Grade. Chromatographically purified AF bioprocessing grade. Supplied as a lyophilized powder containing glycine as a stabilizer. For the removal of DNA in bioprocessing and primary stem cell isolation applications. May contain protease and RNase. Store at 2-8°C.	≥ 2,000 Kunitz units per mg dry weight	DR2	LS006320	25 ku	\$ 85.00
			LS006322	100 ku	240.00
			LS006323	500 ku	780.00
			LS006325	Bulk	Inquire

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Description	Activity	Code	Cat. No.	Size	Price
Deoxyribonuclease I, Ribonuclease & Protease Free, Solution. Purified from bovine pancreas. Molecular Biology Grade. Chromatographically purified to remove RNase and protease. Supplied as a solution at approximately 2 Kunitz units per microliter approximately 1 mg/ml containing 50% glycerol and 1 mM calcium chloride. Store at 2-8°C or -20°C.	≥2,000 Kunitz units per ml	DPRFS	LS006342	100 un	\$ 27.00
			LS006344	500 un	70.00
			LS006348	Bulk	Inquire
Deoxyribonuclease I, Ribonuclease & Protease Free. Purified from bovine pancreas. Molecular Biology Grade. Chromatographically purified to remove RNase and protease. Lyophilized in vials. Each 10,000 unit vial contains 2 mg glycine, 2 μmoles calcium, and ≥ 10,000 units of DNase I. Each 2,500 unit vial contains 0.5 mg glycine, 0.5 μmoles calcium, and ≥ 2,500 units of DNase I. Dissolving the entire 10,000 unit vial in 5 ml, or the entire 2,500 unit vial in 1.25 ml, provides the equivalent of a 1 mg/ml solution. (ku = 1000 un). Store at 2-8°C. PROTECT FROM MOISTURE.	≥2,000 Kunitz units per mg dry weight	DPRF	LS006331	2500 un	\$ 41.00
			LS006333	10 ku	148.00
			LS006343	50 ku	540.00
			LS006334	Bulk	Inquire
Deoxyribonuclease I. Purified from bovine pancreas. Chromatographically prepared especially for low (≤0.0005%) RNase A activity content. A lyophilized powder containing glycine as a stabilizer. Store at 2 - 8°C. PROTECT FROM MOISTURE.	≥2,000 Kunitz units per mg dry weight	DPRF	LS006330	25 ku	\$ 86.00
			LS006328	125 ku	316.00
			LS006332	Bulk	Inquire
Deoxyribonuclease I. Purified from bovine pancreas. Chromatographically purified. A lyophilized powder with glycine as a stabilizer. Store at 2 - 8°C. PROTECT FROM MOISTURE.	≥2,000 Kunitz units per mg dry weight	D	LS002004	5 mg	\$ 33.00
			LS002006	20 mg	76.00
			LS002007	100 mg	270.00
			LS002009	Bulk	Inquire
Deoxyribonuclease I, Filtered. Purified from bovine pancreas. Filtered through a 0.22 micron membrane and lyophilized in vials. Material is not tested for pyrogenicity. Store at 2-8°C. PROTECT FROM MOISTURE.	≥2,000 Kunitz units per mg dry weight	DCLS	LS002058	11 mg	\$ 92.00
			LS002060	25 mg	158.00
Deoxyribonuclease I, Standard Vial. Purified from bovine pancreas. Lyophilized in vials for assay standardization. Labeled to show established activity. Not suitable for assays at neutral pH. Store at 2-8°C.	~2,000 Kunitz units per vial	DSV	LS002173	2 ku	\$ 19.00
			LS002172	5x2 ku	53.00
PDS Kit, DNase Vial. Purified from bovine pancreas. A component of the Papain Dissociation System. This material is 0.22 micron membrane filtered and lyophilized in autoclaved vials. A vial reconstituted with 0.5 ml of EBSS or equivalent yields a solution of 2000 units/ml of deoxyribonuclease (1 mg/ml). Store at 2-8°C.	≥1,000 units per vial	D2	LK003170	1 vi	\$ 23.00
			LK003172	5 vi	78.00
Deoxyribonuclease I. Purified from bovine pancreas. Partially purified. A lyophilized powder. Store at 2-8°C. PROTECT FROM MOISTURE.	≥2,000 Kunitz units per mg dry weight	DP	LS002138	25 mg	\$ 37.00
			LS002139	100 mg	90.00
			LS002140	1 gm	747.00
			LS002141	Bulk	Inquire
Deoxyribonuclease I. Purified from bovine pancreas. Partially purified. A lyophilized powder. Store at 2-8°C. PROTECT FROM MOISTURE.	≥1,250 Kunitz units per mg dry weight	DPB	LS002145	100 mg	\$ 77.00
			LS002147	1 gm	550.00
			LS002149	Bulk	Inquire

Related Products

Actin • Albumin, Nuclease-Free • Deoxyribonuclease II • Deoxyribonucleic Acid and Related Products • Histones • Lysozyme • Nuclease, Micrococcal Nuclease, S1 • Phosphatase, Alkaline • Phosphodiesterase I • Phosphodiesterase II • Proteinase K
Reverse Transcriptase, Recombinant HIV • RNase A • RNase T1 • RNase T2 • Ribonucleic Acid

**Complete Catalog, Tissue Dissociation Guide
and Enzyme Manual available online at:
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TissueDissociation.com**