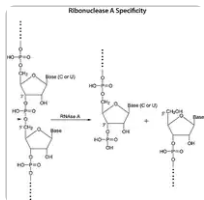


Saisir le nom du produit, le numéro de lot, etc.



Toutes les
photos (6)

Documents

FDS

COO/COA

 Fiche des
caractéristiques

Plus de
documents »

R5125 ► Sigma-Aldrich.

Ribonuclease A from bovine pancreas

★★★★★ (0)

Type III-A, ≥85% RNase A basis (SDS-PAGE), 85-140 Kunitz units/mg protein

Synonyme(s):

Pancreatic Ribonuclease, RNase, RNase A, Ribonuclease 3'-pyrimidinooligonucleotidohydrolase

Numéro CAS: 9001-99-4

Numéro EC: 232-646-6

NACRES: NA.54

Numéro de classification
(Commission des enzymes):

3.1.27.5 (BRENDA, IUBMB)

Numéro MDL:

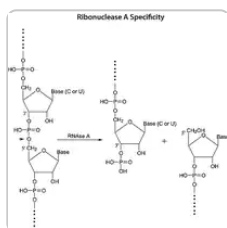
MFCD00132181

Référence	Conditionnement	Disponibilité	Prix	Quantité
R5125-25MG	25 MG	✓ Only 3 left in stock (more on the way) Détails...	89,60 €	- +
R5125-50MG	50 MG	✓ Only 2 left in stock (more on the way) Détails...	161,00 €	- +
R5125-100MG	100 MG	✓ Only 2 left in stock (more on the way) Détails...	274,00 €	- +
R5125-250MG	250 MG	✓ Only 4 left in stock (more on the way) Détails...	390,00 €	- +
R5125-500MG	500 MG	✓ Date d'expédition estimée le 23 décembre 2022	683,00 €	- +

Référence	Conditionnement	Disponibilité	Prix	Quantité
R5125-1G	1 G	✓ Date d'expédition estimée le 30 décembre 2022	1200,00 €	– + i

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[Ajouter au panier](#)

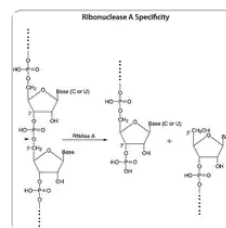
PRODUITS RECOMMANDÉS



Sigma-Aldrich

R4875**Ribonuclease A from bovine pancreas**

Type I-A, powder, ≥60% RNase A basis (SDS-PAGE), ≥50 Kunitz units/mg protein

[Consulter le prix et la disponibilité](#)


Sigma-Aldrich

R6513**Ribonuclease A from bovine pancreas**

for molecular biology, ≥70 Kunitz units/mg protein, lyophilized

[Consulter le prix et la disponibilité](#)

PROPRIÉTÉS

Type Type III-A

Niveau de qualité 300

Essai/Dosage ≥85% RNase A basis (SDS-PAGE)

Forme	lyophilized powder
specific activity	85-140 Kunitz units/mg protein
Poids mol.	~13,700
Impuretés	salt, essentially free
application(s)	diagnostic assay manufacturing
Activité étrangère	protease, essentially free
Temp. de stockage	-20°C

Vous recherchez des produits similaires ? Visitez [Guide de comparaison des produits](#)

Catégories apparentées

[Nucleases \(DNases and RNases\)](#)

DESCRIPTION

Description générale

RNase A, Ribonuclease A, is an endoribonuclease that cleaves the phosphodiester bonds of single strand RNA after pyrimidine nucleotides. It attacks at the 3' phosphate end (For example pG-pG-pC-pA-pG will be cleaved to give pG-pG-pCp and A-pG). The highest activity is exhibited with single stranded RNA. RNase A is a single chain polypeptide containing 4 disulfide bridges. In contrast to RNase B, it is not a glycoprotein. Ribonucleases do not hydrolyze DNA, because the DNA lacks 2'-OH groups essential

for the formation of cyclic intermediates. RNase A can also hydrolyze RNA from protein samples. RNase A can be inhibited by alkylation of His12 and His119 and activated by potassium and sodium salts. RNase is inhibited in the presence of heavy metal ions. RNase is also inhibited competitively by DNA.

Application

- RNase A is used to remove RNA from DNA plasmid and genomic DNA preparations and protein samples.
- RNase A is also used in RNA sequence analysis and protection assays.
- RNase A has been used as a tool for computer-aided drug design.
- RNase A supports the analysis of RNA sequences.
- RNase A hydrolyze RNA contained in protein samples.
- Purification of DNA is supported by RNase A.

Ribonuclease A is used to remove RNA from DNA plasmid preparations and protein samples. Ribonuclease A is used for RNase protection assays, to remove unspecifically bound RNA, analysis of RNA sequences, to hydrolyze RNA contained in protein samples, and the purification of DNA. Ribonuclease A from bovine pancreas has been used in a study to assess nickel-dependent oxidative cross-linking of a protein. Ribonuclease A from bovine pancreas has also been used in a study to investigate equilibrium constants for nonspecific binding of proteins to DNA.

Conditionnement

25, 50, 100, 250, 500 mg in glass bottle

1 g in glass bottle

Actions biochimiques/physiologiques

Ribonuclease A is an endoribonuclease that cleaves single stranded RNA after pyrimidine nucleotides. It attacks at the 3' phosphate end. Ribonucleases do not hydrolyze DNA, because the DNA lacks 2'-OH groups essential for the formation of cyclic intermediates. RNase can also hydrolyze RNA from protein samples. RNase A can be inhibited by alkylation of His12 and His119 and activated by potassium and sodium salts.

Caractéristiques et avantages

Our highly stable Ribonuclease A, RNase A, is suitable for removal of RNA, RNA sequencing, and DNA purification.

Notes préparatoires

Salt fractionated and chromatographically purified.

Remarque sur l'analyse

Protein determined by E.

PRODUITS APPARENTÉS

Application

796-0658

HPLC Analysis of Proteins on Discovery® BIO PolyMA-SCX (Analyte Set #2), application for HPLC

[View Pricing](#)

Inhibiteur

D5758

Diethyl pyrocarbonate, 96% (NT)

[View Pricing](#)

INFORMATIONS SUR LA SÉCURITÉ

Pictograms



GHS08

Mention d'avertissement

Danger

Mentions de danger

H334

Conseils de prudence

P261 - P284 - P501

Classification des risques

Resp. Sens. 1

Code de la classe de stockage

11 - Combustible Solids

WGK

WGK 3

Flash Point(F)

Not applicable

Point d'éclair C

Not applicable

Équipement de protection individuelle

Eyeshields, Gloves, type N95 (US)

DOCUMENTATION

Certificat d'analyse

Saisir un numéro de lot pour rechercher un certificat d'analyse (COA).

Numéro de lot

e.g. 023J5431

Comment saisir un numéro de lot (COA)

Rechercher

Certificat d'origine

Saisir un numéro de lot pour rechercher un certificat d'origine (COO).

Numéro de lot

e.g. 023J5431

Comment saisir un numéro de lot (COO)

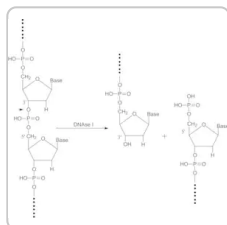
Rechercher

Plus De Documents

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[FDS](#)

LES CLIENTS ONT ÉGALEMENT CONSULTÉ



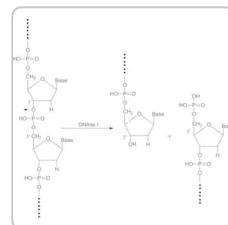
Sigma-Aldrich

D4527

Deoxyribonuclease I from bovine pancreas

Type II, lyophilized powder, Protein $\geq 80\%$, $\geq 2,000$ units/mg protein

[Consulter le prix et la disponibilité](#)



Sigma-Aldrich

DN25

Deoxyribonuclease I from bovine pancreas

lyophilized powder, Protein $\geq 85\%$, ≥ 400 Kunitz units/mg protein

[Consulter le prix et la disponibilité](#)

ARTICLES REVUS PAR DES PAIRS

Nickel-dependent oxidative cross-linking of a protein.

G Gill et al.

Chemical research in toxicology, 10(3), 302-309 (1997-03-01)

A model protein, ribonuclease A (bovine pancreas), was examined for its ability to coordinate Ni²⁺ and promote selective oxidation. In the presence of a peracid such as monopersulfate, HSO₅⁻, nickel induced the monomeric RNase A to form dimers, trimers, tetramers

Equilibrium constants for nonspecific binding of proteins to DNA may be obtained by quantitative zonal DNA affinity chromatography.

E S Jenuwine et al.

Analytical biochemistry, 242(2), 228-233 (1996-11-15)

Quantitative zonal DNA affinity chromatography may be used to determine accurate equilibrium constants for the binding of proteins nonspecifically to DNA. Zonal quantitative affinity chromatography has not previously been applied to the determination of binding constants of proteins to DNA

Flow cytometric DNA content and clinical outcome in patients with non-small cell lung cancer given postoperative radiation therapy.

J Yu et al.

Cytometry, 14(4), 428-432 (1993-01-01)

DNA content by flow cytometry was assessed in 47 cases from a series of 130 patients with non-small cell lung carcinoma (NSCLC) given radiation therapy postoperatively. This was done in an attempt to identify which patients might benefit, or not

An optimized method for measurement of gamma-H2AX in blood mononuclear and cultured cells.

Aida Muslimovic et al.

Nature protocols, 3(7), 1187-1193 (2008-07-05)

Phosphorylation of histone protein H2AX on serine 139 (gamma-H2AX) occurs at sites flanking DNA double-stranded breaks (DSBs) and can provide a measure of the number of DSBs within a cell. We describe a flow cytometry-based method optimized to measure gamma-H2AX

Label-free cell cycle analysis for high-throughput imaging flow cytometry.

Thomas Blasi et al.

Nature communications, 7, 10256-10256 (2016-01-08)

Imaging flow cytometry combines the high-throughput capabilities of conventional flow cytometry with single-cell imaging. Here we demonstrate label-free prediction of DNA content and quantification of the mitotic cell cycle phases by applying supervised machine learning to morphological features extracted from

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PROTOCOLES ET ARTICLES SCIENTIFIQUES

Protocoles

Enzymatic Assay of Ribonuclease A (EC 3.1.27.5)

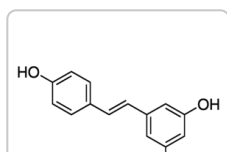
This procedure may be used for determination of Ribonuclease A (RNase A) activity.

Chromatograms

HPLC Analysis of Proteins on Discovery® BIO PolyMA-SCX (Analyte Set #2)

application for HPLC

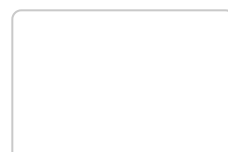
PRODUITS CONSULTÉS RÉCEMMENT



Sigma-Aldrich

R5010

Resveratrol



Sigma-Aldrich

R5000

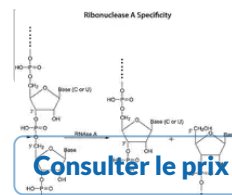
Ribonuclease A from bovine pancreas

Type II-A, ≥60% (SDS-PAGE), ≥ 60 Kunitz units/mg



OH

≥99% (HPLC)

[Consulter le prix et la disponibilité](#)

protein

[Consulter le prix et la disponibilité](#)

Évaluations

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Questions

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