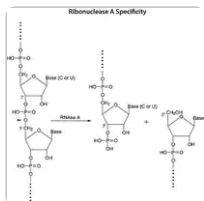


Saisir le nom du produit, le numéro de lot, etc.



Toutes les
photos (6)

Documents

FDS

COO/COA

 Fiche des
caractéristiques

Plus de
documents »

R4875 ► Sigma-Aldrich.

Ribonuclease A from bovine pancreas

★★★★★ (0)

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

Synonyme(s):

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

Numéro CAS: 9001-99-4

Numéro de classification
(Commission des enzymes):

3.1.27.5 (BRENDA, IUBMB)

Numéro EC: 232-646-6

Numéro MDL:

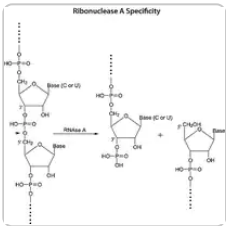
MFCD00132181

Référence	Conditionnement	Disponibilité		Prix	Quantité
R4875-100MG	100 MG	 Only 3 left in stock (more on the way)	Détails...	135,00 €	− + 
R4875-500MG	500 MG	 Only 2 left in stock (more on the way)	Détails...	454,00 €	− + 
R4875-1G	1 G	 Only 4 left in stock (more on the way)	Détails...	810,00 €	− + 
R4875-5G	5 G	 Only 3 left in stock (more on the way)	Détails...	2 720,00 €	− + 

Demander une commande en gros

Ajouter au panier

PRODUITS RECOMMANDÉS



Sigma-Aldrich
R6513
Ribonuclease A from bovine pancreas
for molecular biology, ≥70 Kunitz units/mg protein,
lyophilized

[Consulter le prix et la disponibilité](#)



Roche
RNASEA-RO
RNase A
from bovine pancreas

[Consulter le prix et la disponibilité](#)

PROPRIÉTÉS

Type	Type I-A
Niveau de qualité	300
Essai/Dosage	≥60% RNase A basis (SDS-PAGE)
Forme	powder
specific activity	≥50 Kunitz units/mg protein
Poids mol.	~13,700
Impuretés	salt, essentially free

application(s)	diagnostic assay manufacturing
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Activité étrangère	protease, essentially free
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Temp. de stockage	-20°C
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Vous recherchez des produits similaires ? Visitez [Guide de comparaison des produits](#)

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.

Conditionnement

100, 500 mg in glass bottle

1, 5 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)

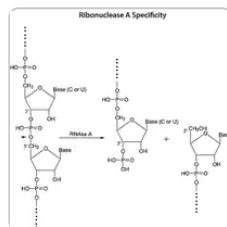
Rechercher

Plus De Documents

[Enzyme Explorer](#)

[FDS](#)

LES CLIENTS ONT ÉGALEMENT CONSULTÉ



Sigma-Aldrich

R5250

Ribonuclease A from bovine pancreas

Type X-A, ≥90% (SDS-PAGE), ≥70 Kunitz units/mg protein

[Consulter le prix et la disponibilité](#)



Millipore

70856

RNase A Solution

Convenient solution for selective degradation of RNA

[Consulter le prix et la disponibilité](#)

ARTICLES REVUS PAR DES PAIRS

Prion replication environment defines the fate of prion strain adaptation.

Elizaveta Katorcha et al.

PLoS pathogens, 14(6), e1007093-e1007093 (2018-06-22)

The main risk of emergence of prion diseases in humans is associated with a cross-species transmission of prions of zoonotic origin. Prion transmission between species is regulated by a species barrier. Successful cross-species transmission is often accompanied by strain adaptation

Epigenetic age-predictor for mice based on three CpG sites.

Yang Han et al.

eLife, 7 (2018-08-25)

Epigenetic clocks for mice were generated based on deep-sequencing analysis of the methylome. Here, we demonstrate that site-specific analysis of DNA methylation levels by pyrosequencing at only three CG dinucleotides (CpGs) in the genes *Prima1*, *Hsf4*, and *Kcns1* facilitates precise

Comparison of experimental and computational functional group mapping of an RNase A structure: implications for computer-aided drug design.

D Joseph-McCarthy et al.

Protein engineering, 9(9), 773-780 (1996-09-01)

One relatively new computational approach to the drug discovery process involves calculating functional group maps of a target structure. Experimental functional group mapping techniques have also recently emerged. In this paper, the structure of RNase A with two bound formates

A non-diploid DNA status is linked to poor prognosis in renal cell cancer.

Franziska Büscheck et al.

World journal of urology, 39(3), 829-837 (2020-05-04)

DNA ploidy measurement has earlier been suggested as a potentially powerful prognostic tool in many cancer types, but the role in renal tumors is still unclear. To clarify its prognostic impact, we analyzed the DNA content of 1320 kidney tumors

Investigation of Different Molecular Weight Fucoidan Fractions Derived from New Zealand Undaria pinnatifida in Combination with GroA Therapy in Prostate Cancer Cell Lines.

Xu Yang et al.

Marine drugs, 16(11) (2018-11-21)

Fucoidan, a sulfated polysaccharide extracted from brown seaweeds, has been shown to possess various antioxidant, anticoagulant, antiviral, and anticancer functions. In this study, we focused on low molecular weight fucoidan (LMWF) which was extracted from New Zealand Undaria pinnatifida, and

[Afficher tous les articles scientifiques apparentés](#)

PROTOCOLES ET ARTICLES SCIENTIFIQUES

Articles

HPLC Analysis of Proteins on Proteomix® SCX-NP5

Separation of Ribonuclease A from bovine pancreas, Type I-A, powder, ≥60% RNase A basis (SDS-PAGE), ≥50 Kunitz units/mg protein; α-Chymotrypsinogen A from bovine pancreas, essentially salt-free, lyophilized powder; Cytochrome c from bovine heart, ≥95% based on Mol. Wt....

HPLC Analysis of Proteins by Cation Exchange on Proteomix® WCX-NP5: Affect of pH

Separation of Ribonuclease A from bovine pancreas, Type I-A, powder, $\geq 60\%$ RNase A basis (SDS-PAGE), ≥ 50 Kunitz units/mg protein; α -Chymotrypsinogen A from bovine pancreas, essentially salt-free, lyophilized powder; Cytochrome c from bovine heart, $\geq 95\%$ based on Mol. Wt....

HPLC Analysis of Proteins by Cation Exchange on Proteomix® WCX: Affect of Particle Size

Separation of Ribonuclease A from bovine pancreas, Type I-A, powder, $\geq 60\%$ RNase A basis (SDS-PAGE), ≥ 50 Kunitz units/mg protein; α -Chymotrypsinogen A from bovine pancreas, essentially salt-free, lyophilized powder; Cytochrome c from bovine heart, $\geq 95\%$ based on Mol. Wt....

Protocoles

Enzymatic Assay of Ribonuclease A (EC 3.1.27.5)

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

HPLC Analysis of HPLC Protein Standard on BIOshell™ A400 Protein C4

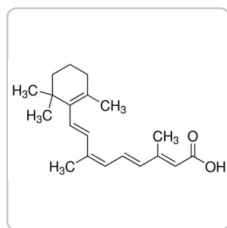
Separation of HPLC protein standard mixture, analytical standard

Chromatograms

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

application for HPLC

PRODUITS CONSULTÉS RÉCEMMENT

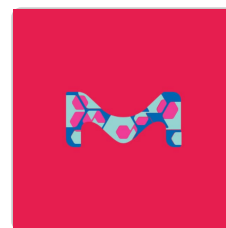


Sigma-Aldrich

R4643

9-*cis*-Retinoic acid

$\geq 98\%$ (HPLC)



Sigma-Aldrich

R4752

Ribonucleic acid, transfer from bovine liver

Type XI, lyophilized powder

[Consulter le prix et la disponibilité](#)[Consulter le prix et la disponibilité](#)

Évaluations

[Soyez le premier à donner votre avis sur ce produit](#)

Questions

[Soyez le premier à poser une question](#)

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Notre équipe de scientifiques dispose d'une expérience dans tous les secteurs de la recherche, notamment en sciences de la vie, science des matériaux, synthèse chimique, chromatographie, analyse et dans de nombreux autres domaines..

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