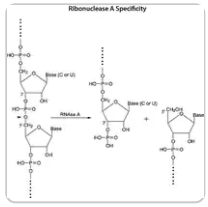


Toutes les photos (6)

Documents

FDS

COO/COA

Fiche des caractéristiques

Plus de documents »

R5503 ▶ Sigma-Aldrich®

Ribonuclease A from bovine pancreas

★★★★★ (0)

Type I-AS, 50-100 Kunitz units/mg protein

Synonyme(s):
Pancreatic Ribonuclease, RNAsea, RNase A, Ribonucleate 3′-pyrimidinooligonucleotidohydrolase

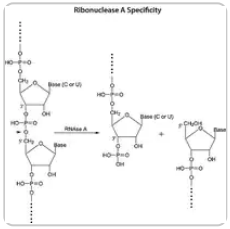
Numéro CAS:	9001-99-4	**Numéro de classification (Commission des enzymes):**	3.1.27.5 (BRENDA, IUBMB)
Numéro EC:	232-646-6	**Numéro MDL:**	MFCD00132181
NACRES:	NA.54		

Référence	Conditionnement	Disponibilité	Prix	Quantité
R5503-100MG	100 MG	Date d'expédition estimée le 20 octobre 2022	92,10 €	− +
R5503-500MG	500 MG	Date d'expédition estimée le 22 décembre 2022	265,00 €	− +
R5503-1G	1 G	Only 4 left in stock (more on the way) Détails...	452,00 €	− +
R5503-5G	5 G	Only 3 left in stock (more on the way) Détails...	1820,00 €	− +
R5503-10G	10 G	Date d'expédition estimée le 27 octobre 2022	2710,00 €	− +

Demander une commande en gros

Ajouter au panier

PRODUITS RECOMMANDÉS



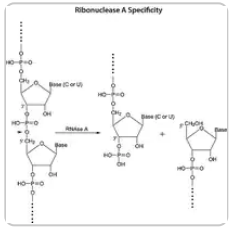
Sigma-Aldrich

R6513

Ribonuclease A from bovine pancreas

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

Consulter le prix et la disponibilité



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

PROPRIÉTÉS

Type	Type I-AS
Niveau de qualité	300
Forme	lyophilized powder
specific activity	50-100 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 ? Visit **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.

Conditionnement

100, 500 mg in poly bottle

1, 5, 10 g in poly 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

WGK
WGK 3

Flash Point(F)
Not applicable

11 - Combustible Solids

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

Fiche D'informations Produit

Product Information Sheet - R5503

Plus De Documents

Enzyme Explorer

FDS

LES CLIENTS ONT ÉGALEMENT CONSULTÉ

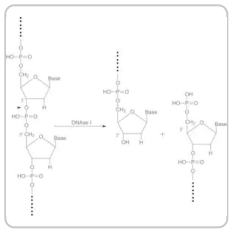
Sigma-Aldrich

R2638

Ribonuclease A, with scrambled disulfide bonds from bovine pancreas

PDI substrate

Consulter le prix et la disponibilité



Sigma-Aldrich

DN25

Deoxyribonuclease I from bovine pancreas

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

Consulter le prix et la disponibilité

ARTICLES REVUS PAR DES PAIRS

A pancreas-specific glycosylated protein disulphide-isomerase binds to misfolded proteins and peptides with an interaction inhibited by oestrogens.

P Klappa et al.
European journal of biochemistry, 254(1), 63-69 (1998-07-04)

Using a cross-linking approach, we have demonstrated that radiolabeled model peptides or misfolded proteins specifically interact in vitro with two different luminal proteins in a crude extract from sheep pancreas microsomes. One of the proteins was identified as protein disulphide-isomerase

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The ribonuclease A superfamily: general discussion.

J J Beintema et al.
Cellular and molecular life sciences : CMLS, 54(8), 825-832 (1998-10-07)

Enzymic properties of members of the ribonuclease A superfamily, like the activity on RNA, the preference for either cytosine or uracil in the primary binding site B1, the preference for the other side of the cleaved phosphodiester bond, the B2

The differential pattern of tissue-specific expression of ruminant pancreatic type ribonucleases may help to understand the evolutionary history of their genes.

M P Sasso et al.
Gene, 227(2), 205-212 (1999-02-19)

Molecular evolutionary analyses of mammalian ribonucleases have shown that gene duplication events giving three paralogous genes occurred in ruminant ancestors. The enzymes of the bovine species encoded by these genes, isolated from pancreas, brain and seminal vesicles, present similar enzymological

---

Proteomics Links Ubiquitin Chain Topology Change to Transcription Factor Activation.

Yanchang Li et al.
Molecular cell, 76(1), 126-137 (2019-08-25)

A surprising complexity of ubiquitin signaling has emerged with identification of different ubiquitin chain topologies. However, mechanisms of how the diverse ubiquitin codes control biological processes remain poorly understood. Here, we use quantitative whole-proteome mass spectrometry to identify yeast proteins

---

PARP1 promotes gene expression at the post-transcriptiona level by modulating the RNA-binding protein HuR.

Yueshuang Ke et al.
Nature communications, 8, 14632-14632 (2017-03-09)

Poly(ADP-ribosyl)ation (PARylation) is mainly catalysed by poly-ADP-ribose polymerase 1 (PARP1), whose role in gene transcription modulation has been well established. Here we show that, in response to LPS exposure, PARP1 interacts with the adenylateuridylate-rich element-binding protein embryonic lethal abnormal vision-like

Afficher tous les articles scientifiques apparentés

PROTOCOLES ET ARTICLES SCIENTIFIQUES

Articles

HPLC Analysis of Proteins on TSKgel® BioAssist S

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 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, ≥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: Affect of Particle Size

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....

Protocoles

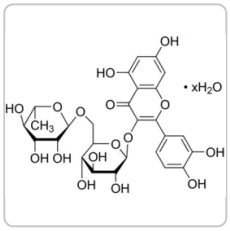
Enzymatic Assay of Ribonuclease A (EC 3.1.27.5)

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



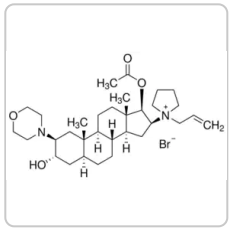
Sigma-Aldrich

R5143

Rutin hydrate

≥94% (HPLC), powder

Consulter le prix et la disponibilité



Sigma-Aldrich

R5155

Rocuronium bromide

≥97% (perchloric acid titration)

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

SERVICE TECHNIQUE

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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