

# Cas9 Nuclease protein NLS (3 µg/µl)

# Cas9 Nuclease protein NLS (15 µg/µl)

**保存:**

-20°C

**製品説明:**

本品は、*Streptococcus pyogenes* 由来の Cas9 Nuclease を、大腸菌で発現・精製した組換えタンパク質です。本品は核移行シグナル(NLS)を N 末端と C 末端に有しており、ガイド RNA と組み合わせることによりゲノム編集に利用することができます。

**製品内容:**
**Code No. 319-08641**

構成品	容量
Cas9 Nuclease protein NLS (3 µg/µL)	75 µg

**Code No. 316-08651**

構成品	容量
Cas9 Nuclease protein NLS (15 µg/µL)	300 µg

**形状:**

10 mM Tris-HCl (pH 7.5), 300 mM NaCl, 0.1 mM EDTA, 1 mM DTT, 50 % Glycerol

**起源:**

遺伝子組換え大腸菌

**分子量:**

162,756 (アミノ酸配列より算出)

**純度:**

- ・ 本酵素 10 µg と基質 DNA を 37°C で 1 時間反応させても、DNA のアガロースゲル電気泳動パターンに変化は認められない。
- ・ 本酵素 10 µg と基質 RNA を 37°C で 1 時間反応させても、RNA のアガロースゲル電気泳動パターンに変化は認められない。
- ・ エンドキシン < 1 EU/µg

**使用例:**

<in vitro での基質 DNA 切断チェック>

Cas9 Nuclease protein NLS 150 - 300 ng  
(約 1-2 pmol)

tracrRNA (2 µM) 1 µL

crRNA (2 µM) 1 µL

↓

室温, 5 min.

↓

基質 DNA 100 ng

10x H Buffer\*1) 2 µL

d.d.H<sub>2</sub>O up to 20 µL

↓

37°C, 60 min.

↓

Loading Buffer (SDS 含有) \*2)

↓

65°C, 5 min.

↓

アガロースゲル電気泳動

\*1) 組成: 500 mM Tris-HCl (pH 7.9), 1 M NaCl, 100 mM MgCl<sub>2</sub>, 10 mM DTT

\*2) 正確な泳動結果を得るため、SDS を含む Loading Buffer (Code No.313-90111 など) の使用をお勧めします。

本品は、試薬(試験研究用)として販売しているものです。  
医薬品の用途には使用しないで下さい。

**ラベルライセンス Label License:****TERMS OF USE**

BEFORE PLACING AN ORDER OR USING THIS PRODUCT, PLEASE READ THE TERMS AND CONDITIONS SET FORTH BELOW. YOUR PURCHASE OF THIS PRODUCT SHALL CONSTITUTE ACKNOWLEDGMENT AND ACCEPTANCE OF THESE TERMS AND CONDITIONS.

Certain commercial entities and/or activities performed at commercial entities may require additional contract rights from ERS Genomics Limited which are not granted through the purchase of this product.

For additional information please see [www.ersgenomics.com/research-products.php](http://www.ersgenomics.com/research-products.php).

The purchaser receives a non-exclusive, non-transferable right to use the Product, Progeny (meaning any unmodified descendant form of the Product), Modifications (meaning any modifications of the Product) and Unmodified Derivatives (meaning any substances created by the purchaser which constitute an unmodified functional subunit or product expressed by the Product) for RESEARCH USE ONLY, which, subject to the exclusions below, includes use to discover and develop any product, including therapeutic products, which may then be sold to third parties, provided, however, that such products do not incorporate the Product, Progeny, Modifications, or Unmodified Derivatives.

No "Commercial Use" is allowed. Commercial Use means any and all uses of the Product, Progeny, Modifications or Unmodified Derivatives thereof, or any modified cells or organisms created through use of the foregoing, including but not limited to:

- (1) Sale, whether or not such sale is limited for use in research;
- (2) Provision of a service to a third party;
- (3) Use in any diagnostic, preventative, or therapeutic application;
- (4) Use in any veterinary, livestock or agricultural application;
- (5) Manufacturing of a product for sale.

For clarity, transfer of materials or provision of services by not for profit or academic core labs to their internal clients shall not constitute a Commercial Use.

Except for the rights granted herein, any and all rights to the Product, Progeny, Modifications or Unmodified Derivatives thereof, shall remain in NIPPON GENE. No ownership rights are transferred.

The purchaser shall have no right to assign the rights granted herein to third parties. The Product, Progeny, Modifications or Unmodified Derivatives thereof, must at all times remain in the possession of the purchaser, except for a transfer to a scientific collaborator or to a service provider, to perform services, solely on behalf of the purchaser.

ERS Genomics Limited is an intended third-party beneficiary under these Terms of Use.