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×10^{-3}:
162.75

純度:
- 本酵素 10 μg と基質 DNA を 37℃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℃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。
- エンドトキシン ＜ 1 EU/μg

使用例:

<in vitro での切断チェック>

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_2O	up to 20 μL
↓	
37℃, 60 min.	
↓	
Loading Buffer (SDS 含有) *2)	
↓	
65℃, 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 MgCl2, 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。

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