



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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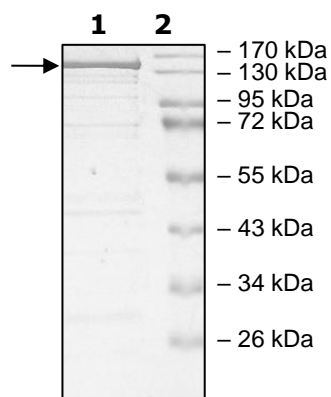
[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

Product Information

Description:	Recombinant <i>S. pyogenes</i> SpCas9-NLS (conserved hypothetical protein), full length. This construct contains a C-terminal His-Tag. SpCas9-NLS contains a nuclear localization sequence for optimal activity.
Species:	<i>Streptococcus pyogenes</i>
Construct:	Cas9 (Full Length-NLS-His) (<i>S. pyogenes</i>)
Concentration:	0.1 mg/ml
Expression System:	<i>E. coli</i>
Purity:	70%
Format:	Aqueous buffer solution.
Formulated In:	50 mM sodium phosphate, pH 7.5, 300 mM NaCl, 1 mM DTT, 150 mM imidazole, and 10% glycerol
MW:	160 kDa
Genbank Accession:	AAK33936
Stability:	At least 6 months at -80°C.
Storage:	-80°C
Instructions for Use:	Thaw on ice and gently mix prior to use. DO NOT VORTEX. Perform a quick spin before opening. Aliquot into small volumes and flash freeze for long term storage. Avoid multiple freeze/thaw cycles.
Assay Conditions:	Cas9 activity was measured using DNA Cleavage assay. Active Cas9 enzyme, sgRNA or tracrRNA/crRNA, 5 µl of 4X Cas9 reaction buffer (200 mM Tris-HCl, pH 7.9, 400 mM MgCl ₂ , and 0.4 mg/ml Prionex (w/v 0.04%)) and nuclease-free water were combined to a final reaction volume of 20 µl. The reaction was then incubated at room temperature for 20-60 minutes, followed by the addition of 20-500 ng of target DNA to the Cas9-gRNA complex to initiate the reaction. A subsequent incubation at 37°C for 10-30 minutes. Cleavage of target DNA was confirmed by running a DNA agarose gel.
Applications:	Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.

Quality Control Data

4-20% SDS-PAGE Coomassie Staining



Activity

