

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

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien T. +43(0)1 489 3961-0 F. +43(0)1 489 3961-7 <u>mail@szabo-scandic.com</u> www.szabo-scandic.com

Cas13a (L. buccalis) Recombinant

Product Information

Description:	Recombinant L. buccalis LbuCas13a (type VI-A CRISPR-associated RNA-guided ribonuclease Cas13a), tag free. Cas13a is an RNA-guided endonuclease that belongs to
	the class 2 type VI CRISPR-Cas system. When activated, Cas13a induces collateral
	cleavage of nearby non-targeted RNAs in a nonspecific manner.
Species:	Leptotrichia buccalis
Construct:	Cas13a (Full Length) (L. buccalis)
Concentration:	0.20 mg/ml
Expression System:	E. coli
Purity:	70%
Format:	Aqueous buffer solution.
Formulated In:	50 mM sodium phosphate, pH 7.5, 300 mM NaCl, 1 mM DTT, and 10% glycerol
MW:	130 kDa
Genbank Accession:	WP_015770004
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:	Varying amounts of LbuCas13a activity was measured using a CRISPR-based fluorescent
	reporter assay for optimal results. Target RNA cutting and collateral RNase activity was
	activated using RNA-guided RNA Binding to Cas13a. Emission of fluorescent signal is
	due to the degradation of the reporter substrate upon cleavage.
	Active Cas13 was thawed on ice while 1X Reaction Buffer containing 20 mM HEPES, pH
	7.0, 50 mM KCl, 5 mM MgCl ₂ , and 0.1 mg/ml BSA, guide RNA (target-specific spacer
	sequence), target RNA activator (complementary sequence to crRNA) were
	equilibrated to room temperature. Next three working solutions of Active Cas13 (4X
	final concentration) guide RNA (4X final concentration) and activator/reporter mix
	containing RNA activator and reporter substrate (2X final concentration), were
	prepared using 1X Reaction Buffer. 10 μl of 4X active Cas12 and 10 μl of 4x guide RNA
	were then preincubated in half the area of a solid black 96-well plate for 5 minutes at
	room temperature. After preincubation, 20 μ l of 2X activator/reporter mix was added
	to plate and placed on shaking incubator for 1 min. The plate was then sealed and
	incubated at 37°C for 10-30 minutes. Plate was then equilibrated to room temperature,
	plate sealer removed, and fluorescence read on a microplate reader. Negative control
	was measured by replacing enzyme working solution with equal volume of assay buffer.
Applications:	Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.



Cas13a (L. buccalis) Recombinant

Quality Control Data



