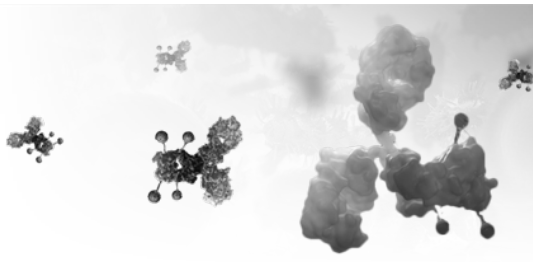

LbuCas13a Nuclease (mCCE-TX-4)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Storage	Store at -20°C for 1 year; For long-term storage, -80°C is recommended.
Product Type	Raw Material Enzyme
Buffer	LbuCas13a Cleavage Buffer (5×)
Purity	~95%(verified by SDS-PAGE)
Application Note	It can be combined with CRISPR system to realize the detection and signal amplification of RNA template, and the results can be directly observed by fluorometer or test paper.
Unit Size	100 pmol, 500 pmol, 1000 pmol
Source	Leptotrichia buccalis
Enzymatic Activity	9 transU/pmol

ReactionSystem

Component	Sample Volume
5× Cleavage Buffer	5 μL
5 μM LbuCas13a	0.25 μL(50 nM)
25 U RNase Inhibitor	1 μL(1 U)
500 nM crRNA	2.5 μL(50 nM)
4 μM ssRNA Reporter	2.5 μL(400 nM)
1 μM RNA target	1.25 μL(50 nM)
RNase-free ddH2O	Up to 25 μL

Reaction Condition	Using a real-time fluorescent quantitative PCR or constant temperature fluorescence signal amplification detection, 37°C reaction, once every 30 sec to collect fluorescence signal.

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Molecular Weight	141.6 kDa

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