Creative Enzymes
Diagnostic Enzymes

Cas13a Nuclease from Leptotrichia buccalis

Product Information

Cat#	CAS-1302
Source	Recombinant
Description	LbuCas13a (also known as C2c2) originates from the strain Leptotrichia buccalis. LbuCas13a is a type II VI CRISPR system effector protein, a crRNA-mediated endonuclease. Its "accessory cleavage" activity is activated when recognizing and cleaving target RNA, allowing it to non-specifically cleave single-stranded RNA (ssRNA) in the system. By designing RNA probes with fluorescent groups or other labels at both ends, CRISPR/Cas13a can be used to detect and amplify the RNA template. Results can be observed using a fluorometer or test strips.
Storage	Shelf life is 1 year. Storage conditions: -80°C. To avoid repeated freeze-thaw cycles, after opening, please store the Cas enzyme at -20°C. It is recommended to aliquot according to the number of uses to avoid repeated temperature changes that may reduce enzyme activity.
Purity	95% (SDS-PAGE)
Optimum temperature	37°C
Abbr	LbuCas13a
Applications	RNA Detection; Diagnostics
Appearance	Liquid
Molecular Weight	140.6 kDa
Species	Leptotrichia buccalis
Grade	Research Grade
reaction system	1 μM LbuCas13a, 5 × Cleavage Buffer, 25 U RNase Inhibitor, 500 nM crRNA, 4 μM ssRNA Reporter, 1 μM RNA target, DEPC H2O

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