# Nae I



## Product Description

Nae I is a Type IIP restriction endonuclease expressed in *Escherichia coli* carrying the Nae I gene cloned from *Nocardia aerocolonigenes* (ATCC 23870). Its recognition and cleavage sequences are shown below:

5'...GCC ↓ GGC...3'

3'...CGG ↑ CCG...5'

## Components

| Components | BR1G112-01<br>250 U | BR1G112-02<br>500 U |
|---|---|---|
| Nae I (10 U/μL) | 1×0.025 mL | 1×0.05 mL |
| 10× Cut-Buffer | 1×1 mL | 1×1 mL |

## Unit Definition

One unit is defined as the amount of enzyme required to completely and specifically cleave 1 μg of internal control plasmid template in 1 hour at 37°C.

## Storage

Store at -20±5°C.

## Notes

1. For research use only. Not for use in clinical diagnosis.
2. Mix thoroughly before use. Avoid repeated freeze-thaw cycles.
3. The volume of restriction endonuclease added should not exceed one-tenth of the total reaction volume.
4. Suitable for digestion of genomic DNA, plasmid DNA, and PCR products.
5. Digestion for longer than 3 h is not recommended, as prolonged incubation may lead to star activity.

## Prepare Reaction Mix

Prepare the reaction mix on ice as follows:

| Components | Volume per Reaction | Concentration in Master Mix |
|---|---|---|
| 10× Cut-Buffer | 5 μL | 1× |
| Nae I (10 U/μL) | 1 μL | 0.2 U/μL |
| DNA Substrate | 1 μg | — |
| $ddH_2O$ | To 50 μL | — |

## Reaction Programe

Incubate at 37°C for 1 h.

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