

## Human DNMT1 protein (Recombinant) (No tag) (STJP003015)

### GENERAL INFORMATION

|               |          |
|---------------|----------|
| Product Type  | Proteins |
| Host / Source | E.coli   |

### PRODUCT PROPERTIES

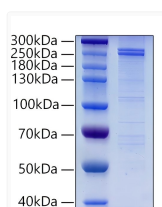
|                     |                                                                                                                                 |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Formulation         | Supplied as 0.22 $\mu$ M filtered solution in 25mM Hepes-NaOH, 500mM NaCl, 0.04%, tritonX 100, 0.5mM TCEP, 10%Glycerol, pH 7.5. |
| Storage Instruction | Store at -20°C for up to 1 year from the date of receipt, and avoid repeat freeze-thaw cycles.                                  |

### TARGET INFORMATION

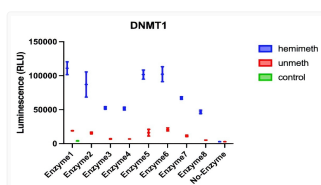
|                    |                                                                                                                         |
|--------------------|-------------------------------------------------------------------------------------------------------------------------|
| Gene ID            | <a href="#">1786</a>                                                                                                    |
| Gene Symbol        | <a href="#">DNMT1</a>                                                                                                   |
| UniProt ID         | <a href="#">DNMT1_HUMAN</a>                                                                                             |
| Immunogen Region   | Pro2-Asp1632                                                                                                            |
| Immunogen Sequence | AKHKQRKRLKSSCKRHPLYV DFSDVGWNDWIVAPPGYHAF YCHGECPPFLADHLNSTNHA<br>IVQTLVNSVNSKIPKACCVPTLSAISMLYLDENEKVVLK NYQDMVVEGCGCR |

### ADDITIONAL INFORMATION

|      |                                                                                                                         |
|------|-------------------------------------------------------------------------------------------------------------------------|
| Note | STRICTLY FOR FURTHER SCIENTIFIC RESEARCH USE ONLY (RUO). MUST NOT TO BE USED IN DIAGNOSTIC OR THERAPEUTIC APPLICATIONS. |
|------|-------------------------------------------------------------------------------------------------------------------------|



Recombinant Human DNMT1 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 250-300 kDa.



The 42 base pair of DNA duplex containing three hemimethylation sites (2.5  $\mu$ M) was methylated with the recombinant DNMT1 (0.18 mg/mL) including 20  $\mu$ M SAM in reaction buffer (20 mM Tris-HCl [pH 8.0], 50 mM NaCl, 1 mM EDTA, 3 mM MgCl<sub>2</sub>, 0.1 mg/mL BSA, and 1 mM DTT) at 37 °C for 1 hr. Then methyltransferase assay was performed using MTase-Glo<sup>®</sup> Methyltransferase Assay (Promega, V7601). Enzyme 1-4 represent STJP003015, Enzyme 5-8 represent recombinant DNMT1 with a 6A-His tag at the N-terminus. (Customer feedback data)