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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Data Sheet

DNMT3B/DNMT3L, His, GST-tag

Human, recombinant, His- and GST-tagged

Catalog #: 51104

Lot #: 140619-HG **Conc.:** 0.13 mg/ml

Formulated in: 40 mM Tris-HCl, pH 8.0, 110 mM NaCl, 2.2 mM KCl, 16 mM Glutathione, and 20% glycerol.

Stability: At least 6 months at -80°C . Avoid freeze/thaw cycles. Storing diluted enzyme is not recommended, if necessary, use carrier protein (BSA 0.1 – 0.5%).

References:

1. Xie, J.-H., *et al.*, *Human Molecular Genetics* **15(9)**:1375-1385 (2006).
2. Suetake, I. *et al.*, *J. Biol. Chem.* **279(26)**: 27816–27823 (2004).
3. Gowher, H., *et al.*, *J. Biol. Chem.* **280**: 13341–13348 (2005).

Description:

Complex of human DNA methyl-transferase 3B (DNMT3B), GenBank Accession No. NM_006892, a.a. 564-853(end) with N-terminal His-tag, MW=34 kDa, and DNMT3L (GenBank Accession No. NM_013369), a.a. 160-387(end), with an N-terminal GST tag, MW = 52 kDa, co-expressed in a baculovirus-infected Sf9 cell expression system.

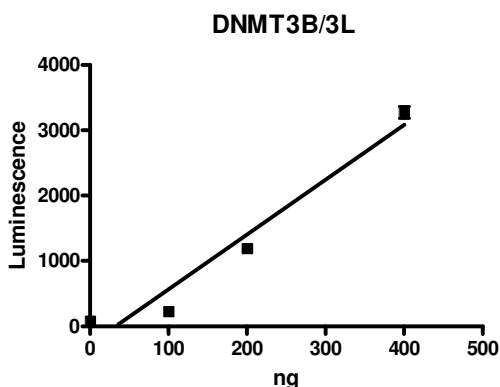
Specific Activity: 0.52 pmol/min/ μg .

Enzyme reaction was conducted following the BPS Bioscience DNMT3B Direct Activity Chemiluminescent Assay Kit (Cat. # 52034) protocol with 1 hour incubation.

Application:

Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.

Quality Assurance



**4-20% SDS-PAGE
 Coomassie staining**

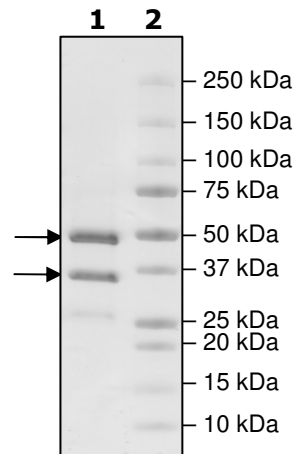
Lane 1:

5 μg DNMT3B
 +DNMT3L

Lane 2:
 Protein Marker

MW: DNMT3B 34kDa
 DNMT3L 52kDa

Purity: $\geq 90\%$



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Sequence:

DNMT3B

MHHHHHHYPAIPAARRRPIRVLSLFDGIATGYLVKELGIKVGKYVASEVCEESIAVGTVK
HEGNIKYVNDVRNITKKNIEEWGPFDLVIGGSPCNDLSNVNPARKGLYEGTGRLFFEFYHL
LNYSRPKEGDDRPFFWMFENVVAMKVGDKRDISRFLECNPVMIDAIKVSAAHRARYFWG
NLPGMNRPVIASKNDKLELQDCLEYNRIAKLKKVQTITTKSNSIKQGKNQLFPVVMNGKE
DVLWCTELERIFGFPVHYTDVSNMGRGARQKLLGRSWSVPVIRHLFAPLKDYFACE

DNMT3L

MSPILGYWKIKGLVQPTRLLEYLEEKYEEHLYERDEGDKWRNKKFELGLEFPNLPYYIDGD
VKLTQSMAIIRYIADKHNMLGGCPKERAIEISMLEGAVLDIRYGVSRAYSKDFETLKVDFLSK
LPEMLKMFKDRDLCHKTYLNGDHVTHPDFMLYDALDVVLYMDPMCLDAFPKLVCFKKRIEAI
PQIDKYLKSSKYIAWPLQGQWQATFGGGDHPPKSDPLVPRGSPGEFWRSQLKAFYDRESE
NPLEMFETVPVWRRQPVRVLSLFEDIKKELTSLGFLESGSDPGQLKHVVDTDTVRKDVE
EWGPFDLVYGATPPLGHTCDRPPSWYLFQFHRLQLYARPKPGSPRPFWMFVDNLVLN
KEDLDVASRFLEMEPVTIPDVHGGSLQNAVRVWSNIPAIRSSRHVALVSEEELSLLAQNK
QSSKLAAKWPTKLVKNCFLPLREYFKYFSTELTSSL

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