

Data Sheet

DNMT3B/DNMT3L

Human, recombinant, His- and GST-tagged

Catalog #: w61115

Lot#: 121023

Conc.: 0.2 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: >6 months at -80°C

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.

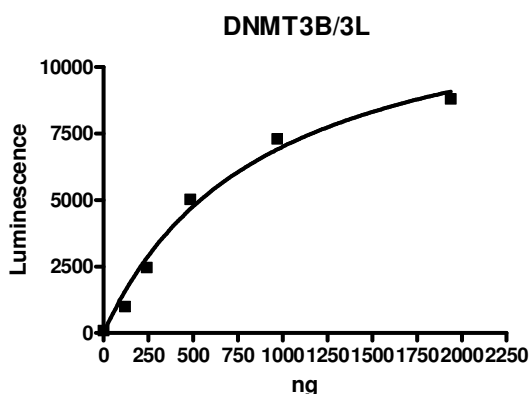
Specific Activity: 0.52 pmol/min/μg.

Enzyme reaction was conducted following the West Bioscience DNMT3B Direct Activity Chemiluminescent Assay Kit (Cat. # w62045) 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:

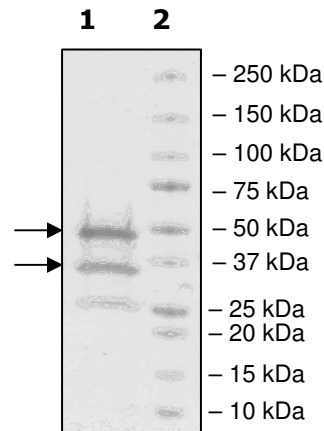
5 μg DNMT3B/DNMT3L

Lane 2:

Protein Marker

MW: 34 kDa (DNMT3B)
and 52 kDa (DNMT3L)

Purity: ≥86%



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Sequence:

DNMT3B

MHHHHHYP AIPAAARRRPIRVLSLFDGIATGYLVLKELGIKVGKYVASEVCEESIAVGTVK
HEGNIKYVNDVRNITKKNIEEWGPFDLVIGGSPCNDLSNVNPARKGLYEGTGRLFFEFYHL
LNYSRPKEGDDRPFFWMFENVVAMKVGDKRDISRFLECNPVMIDAIKVSAHRARYFWG
NLPGMNRPIVASKNDKLELQDCLEYNRIAKLKKVQTITTKSNSIKQGKNQLFPVVMNGKE
DVLWCTELERIFGFPVHYTDVSNMGRGARQKLLGRSWSVPVIRHLFAPLKDYFACE

DNMT3L

MSPILGYWKIKGLVQPTRLLEYLEEKYEEHLYERDEGDKWRNKKFELGLEFPNLPYYIDGD
VKLTQSMARIYIADKHNMMLGGCPKERAISMLEGAVLDIRYGVSRAYSDFETLKVDFLSK
LPEMLKMFKDRLCHKTYLNGDHVTHPDFMLYDALDVVLYMDPMCLDAFPKLVCFKKRIEAI
PQIDKYLKSSKYIAWPLQGQWQATFGGGDHPPKSDPLVPRGSPGEFWRSQKAFYDRESE
NPLEMFTVPVWRRQPVRVLSLFEDIKKELTSLGFLESGSDPGQLKHVVVDVTDTVRKDVE
EWGPFDLVYGATPPLGHTCDRPPSWYLFQFHRLQLYARPKPGSPRPFFWMFVDNLVLN
KEDLDVASRFLEMEPVTIPDVHGGSLQNAVVRVWSNIPAIRSSRHVALVSEEELSLLAQNK
QSSKLAAKWPTKLVKNCFLPLREYFKYFSTELTSSL

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