

Data Sheet

DNMT3B/DNMT3L

Human, recombinant, His- and GST-tagged

Catalog #: w61115

Lot#: 121008

Conc.: 0.08 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.

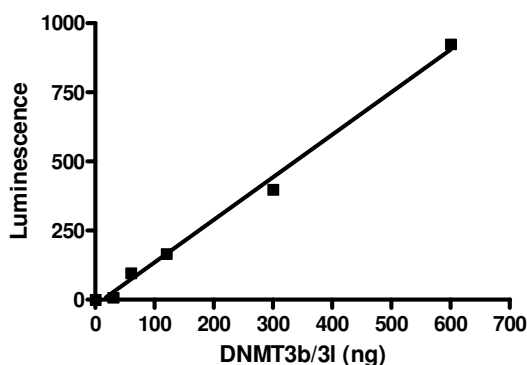
Specific Activity: 0.52 pmol/min/μg.

Assay conditions: Add 50 μl reaction mix containing DNMT3B/DNMT3L to wells coated with DNMT substrate. Incubate 2 hr at 37°C. Add antibody against 5-methylcytosine, then HRP-labeled secondary antibody followed by chemiluminescent detection.

Application:

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

Quality Assurance



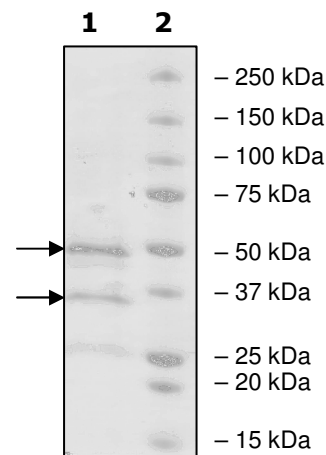
10% SDS-PAGE **Coomassie staining**

Lane 1:
2.4 μg DNMT3B/DNMT3L

Lane 2:
Protein Marker

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

Purity: ≥79%



OUR PRODUCTS ARE FOR RESEARCH USE ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.



9891 Irvine Center Dr. Suite 200
Irvine, CA 92618
United States
Tel: 1.800.831.1518
Fax: 1.800.831.1518
Email: sale@westbioscience.com

Sequence:

DNMT3B

MHHHHHYPAIPAARRRPIRVLSLFDGIATGYLVLKELGIKVGKYVASEVCEESIAVGTVK
HEGNIKYVNDVRNITKKNIEEWGPFDLVIGGSPCNDLSNVNPARKGLYEGTGRLFFEFYHL
LNYSRPKEGDDRPFFWMFENVVAMKVGDKRDISRFLECNPVMIDAIKVSAHRARYFWG
NLPGMNRPIASKNDKLELQDCLEYNRIAKLKKVQTITTKSNSIKQGKNQLFPVVMNGKE
DVLWCTELERIFGFPVHYTDVSNMGRGARQKLLGRSWSVPVIRHLFAPLKDYFACE

DNMT3L

MSPILGYWKIKGLVQPTRLLEYLEEKYEEHLYERDEGDKWRNKKFELGLEFPNLPYYIDGD
VKLTQSMARIYIADKHNMMLGGCPKERAISMLEGAVLDIRYGVSRAYSKDFETLKVDFLSK
LPEMLKMFKDRLCHKTYLNGDHVTHPDFMLYDALDVVLYMDPMCLDAFPKLVCFKKRIEAI
PQIDKYLKSSKYIAWPLQGQWQATFGGGDHPPKSDPLVPRGSPGEFWRSQLKAFYDRESE
NPLEMFETVPVWRRQPVRVLSLFEDIKKELTSLGFLESGSDPGQLKHVVVDVTDTVRKDVE
EWGPFDLVYGATPPLGHTCDRPPSWYLFQFHRLQLYARPKPGSPRPFFWMFVDNLVLN
KEDLDVASRFLEMEPVTIPDVHGGSLQNAVVRVWSNIPAIRSSRHVALVSEEELSLLAQNK
QSSKLAAKWPTKLVKNCFLPLREYFKYFSTELTSSL

OUR PRODUCTS ARE FOR RESEARCH USE ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.