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## Product Datasheet

### DBIC FBM-10-5161

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| Article Name               | DBIC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Biozol Catalog Number      | FBM-10-5161                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Supplier Catalog Number    | 10-5161                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Alternative Catalog Number | FBM-10-5161-5MG,FBM-10-5161-25MG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Manufacturer               | Focus Biomolecules                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Category                   | Biochemikalien                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Product Description        | DNMT3B S-nitrosylation inhibitor...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Molecular Weight           | 296.29                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Purity                     | >98% by TLC NMR (Conforms)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Form                       | Grey solid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| CAS Number                 | [487026-67-5]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Formula                    | C15H12N4O3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Application Notes          | Specifically inhibits S-nitrosylation of DNA methyltransferase 3B (DNMT3B) at low concentrations, IC50100 nM, without affecting its enzymatic activity. Treatment with DBIC prevents nitric oxide-induced conversion of human colonic adenoma to adenocarcinoma in vitro. Treatment with DBIC strongly attenuates tumor development in a mouse model of carcinogenesis triggered by inflammation-induced NO production. DNMT3B-mediated DNA methylation is regulated by S-nitrosylation and DBIC represents a new useful tool for studying this system. <sup>1</sup> A negative control compound, DBIC-neg2 (Cat 10-5162) is also available. |