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## Product Datasheet

**DBIC**

**FBM-10-5161**

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|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Artikelname              | DBIC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Artikelnummer            | FBM-10-5161                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Hersteller Artikelnummer | 10-5161                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Alternativnummer         | FBM-10-5161-5MG,FBM-10-5161-25MG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Hersteller               | Focus Biomolecules                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Kategorie                | Biochemikalien                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Produktbeschreibung      | DNMT3B S-nitrosylation inhibitor...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Molekulargewicht         | 296.29                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Reinheit                 | >98% by TLC NMR (Conforms)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Formulierung             | Grey solid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| CAS Nummer               | [487026-67-5]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Formel                   | C15H12N4O3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Anwendungsbeschreibung   | <p>Specifically inhibits S-nitrosylation of DNA methyltransferase 3B (DNMT3B) at low concentrations, IC50 100 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.</p> |