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## Product Datasheet

### DRB, CAS [[53-85-0]] FBM-10-2047

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| Article Name               | DRB, CAS [[53-85-0]]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Biozol Catalog Number      | FBM-10-2047                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Supplier Catalog Number    | 10-2047                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Alternative Catalog Number | FBM-10-2047-10MG,FBM-10-2047-50MG,FBM-10-2047-10MM/1MLDMSO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Manufacturer               | Focus Biomolecules                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Category                   | Biochemikalien                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Product Description        | Transcription inhibitor, CK2 inhibitor...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Molecular Weight           | 319.14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Purity                     | 98% by HPLC NMR (conforms)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Form                       | White solid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| CAS Number                 | [53-85-0]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Formula                    | C12H12Cl2N2O4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Application Notes          | A classic inhibitor of transcription by RNA polymerase II. A relatively selective inhibitor of Cdk9 (IC50=3 µM), the kinase of the positive transcription elongation factor b (P-TEF-b) required for processive transcription elongation by RNA polymerase II. <sup>1,2</sup> Also inhibits casein kinase II, IC50=4-10 µM. <sup>3</sup> Suppresses the SIRT1/CK2α pathway and enhances the radiosensitivity of human cancer cells. <sup>4</sup> Kinase-independent activities of Cdk9 such as glucocorticoid receptor modulation are not inhibited by DRB. <sup>5</sup> |