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## Product Datasheet

### Compound 401, CAS [[168425-64-7]] FBM-10-3055

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| Article Name               | Compound 401, CAS [[168425-64-7]]                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Biozol Catalog Number      | FBM-10-3055                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Supplier Catalog Number    | 10-3055                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Alternative Catalog Number | FBM-10-3055-5MG,FBM-10-3055-25MG                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Manufacturer               | Focus Biomolecules                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Category                   | Biochemikalien                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Product Description        | Dual DNA-PK/mTOR inhibitor...                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Molecular Weight           | 381.32                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Purity                     | >98% by TLC/HPLC (NMR Conforms)                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Form                       | Off-white solid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| CAS Number                 | [168425-64-7]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Formula                    | C16H15N3O2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Application Notes          | Compound 401 is a dual inhibitor of DNA-dependent protein kinase (DNA-PK) and mammalian target of rapamycin (mTOR), IC50s = 0.28 and 5.3 $\mu$ M, respectively) with selectivity over PI3K, ATM, and ATR.1 Treatment of cells with 401 (10 $\mu$ M) blocked the phosphorylation of sites modified by mTOR-Raptor and mTOR-Rictor complexes (ribosomal protein S6 kinase 1 Thr(389) and Akt Ser(473), respectively) with no direct inhibition of Akt Thr(308) phosphorylation, which is dependent on PI3K.2 |