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## Product Datasheet

### AE 51310, CAS [[433966-92-8]] FBM-10-4655

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| Article Name               | AE 51310, CAS [[433966-92-8]]                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Biozol Catalog Number      | FBM-10-4655                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Supplier Catalog Number    | 10-4655                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Alternative Catalog Number | FBM-10-4655-5MG,FBM-10-4655-25MG                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Manufacturer               | Focus Biomolecules                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Category                   | Biochemikalien                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Product Description        | OPN4/Melanopsin antagonist...                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Molecular Weight           | 338.24                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Purity                     | 99% by HPLC NMR (Conforms)                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Form                       | White solid                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| CAS Number                 | [433966-92-8]                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Formula                    | C13H17Cl2NO3S                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Application Notes          | AE 51310 is a potent antagonist of the GPCR OPN4/melanopsin (Ki = 0.096 nM human OPN4). <sup>1</sup> OPN4 regulates circadian rhythms, pupil functions, melatonin expression, cognition, and sleep. OPN4 has been found to bind G11 in lung cancer cells modulating PKC activation leading to activation of BRAF/MEK/ERK signaling pathways. AE 51310 decreased the growth and proliferation of both LG17 and LG55 lung cancer tumors in mouse xenograft models. |