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## Product Datasheet

### Calphostin C FBM-10-5635

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Article Name               | Calphostin C                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Biozol Catalog Number      | FBM-10-5635                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Supplier Catalog Number    | 10-5635                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Alternative Catalog Number | FBM-10-5635-100UG,FBM-10-5635-500UG                                                                                                                                                                                                                                                                                                                                                                                                               |
| Manufacturer               | Focus Biomolecules                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Category                   | Biochemikalien                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Product Description        | Protein Kinase C inhibitor...                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Molecular Weight           | 790.77                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Purity                     | 98% by HPLC NMR (Conforms)                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Form                       | Dark red to light brown solid                                                                                                                                                                                                                                                                                                                                                                                                                     |
| CAS Number                 | [121263-19-2]                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Formula                    | C <sub>44</sub> H <sub>38</sub> O <sub>14</sub>                                                                                                                                                                                                                                                                                                                                                                                                   |
| Application Notes          | Potent and specific inhibitor of protein kinase C (PKC, IC <sub>50</sub> = 50 nM). <sup>1</sup> Inhibition of PKC is light dependent <sup>2</sup> and is competitive with the diacylglycerol / phorbol ester binding site <sup>1</sup> . Calphostin C competes with the diacylglycerol / phorbol ester binding site in other proteins such as Munc13-1. <sup>3</sup> Reverses oxycodone-induced tolerance to respiratory depression. <sup>4</sup> |