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## Product Datasheet

**CBR-5884, CAS [[681159-27-3]]**

**FBM-10-1588**

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| Artikelname              | CBR-5884, CAS [[681159-27-3]]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Artikelnummer            | FBM-10-1588                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Hersteller Artikelnummer | 10-1588                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Alternativnummer         | FBM-10-1588-5MG,FBM-10-1588-25MG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Hersteller               | Focus Biomolecules                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Kategorie                | Biochemikalien                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Produktbeschreibung      | PHGDH / serine biosynthesis inhibitor...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Molekulargewicht         | 336.39                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Reinheit                 | 98% by TLC, NMR (Conforms)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Formulierung             | Off-white solid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| CAS Nummer               | [681159-27-3]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Formel                   | C14H12N2O4S2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Anwendungsbeschreibung   | <p>Potent and selective inhibitor of 3-phosphoglycerate dehydrogenase (PHGDH), IC<sub>50</sub>=33 µM<sup>1</sup>. The action of PHGDH is the first committed step of serine biosynthesis<sup>2</sup> and certain cancer cells overexpress PHGDH<sup>3</sup>. CBR-5884 inhibits serine biosynthesis in cells with no effect on two other dehydrogenases, lactate dehydrogenase and MDH1 and without general cytotoxic effects up to 40 µM. CBR-5884 is selectively toxic to tumor cells with high serine synthesis activity. A novel tool for selective inhibition of serine biosynthesis in cells which also provides further proof that PHGDH is a viable target for the development of novel anticancer agents<sup>1</sup>.</p> |