

Bitte beachten Sie: Dieses Dokument wurde automatisch erstellt und ist kein Ersatz für das Originaldokument des Herstellers.

## Product Datasheet

### MAC-545496, CAS [[838810-96-1]] FBM-10-3951

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Artikelname              | MAC-545496, CAS [[838810-96-1]]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Artikelnummer            | FBM-10-3951                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Hersteller Artikelnummer | 10-3951                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Alternativnummer         | FBM-10-3951-5MG,FBM-10-3951-25MG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Hersteller               | Focus Biomolecules                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Kategorie                | Biochemikalien                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Produktbeschreibung      | GraR inhibitor...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Molekulargewicht         | 419.88                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Reinheit                 | 98% by TLC NMR (Conforms)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Formulierung             | Yellow/orange solid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| CAS Nummer               | [838810-96-1]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Formel                   | C18H18CIN5O3S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Anwendungsbeschreibung   | Inhibitor of glycopeptide-resistance-associated protein R (GraR, also known as ApsR). GraR and its regulatory system are important for virulence of <i>S. aureus</i> . MAC-545496 is able to reverse $\beta$ -lactam resistance in <i>S. aureus</i> in a <i>G. Mellonella</i> larvae model. 0.06 $\mu$ g/mL MAC-545496 lowered the minimum inhibitory concentration (MIC) for oxacillin against <i>S. aureus</i> below the CLSI clinical breakpoint. It lowered the $\beta$ -lactam MIC from 512 to 8 $\mu$ g/mL against <i>S. aureus</i> USA300. |