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## Product Datasheet

**Kifunensine, CAS [[109944-15-2]]**  
**FBM-10-2860**

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Artikelname              | Kifunensine, CAS [[109944-15-2]]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Artikelnummer            | FBM-10-2860                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Hersteller Artikelnummer | 10-2860                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Alternativnummer         | FBM-10-2860-1MG,FBM-10-2860-5MG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Hersteller               | Focus Biomolecules                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Kategorie                | Biochemikalien                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Produktbeschreibung      | Mannosidase inhibitor...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Molekulargewicht         | 232.19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Reinheit                 | 98% by TLC NMR (Conforms)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Formulierung             | White solid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| CAS Nummer               | [109944-15-2]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Formel                   | C <sub>8</sub> H <sub>12</sub> N <sub>2</sub> O <sub>6</sub>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Anwendungsbeschreibung   | <p>Historically isolated from Kitasatosporia kifunensee.1 Inhibitor of class I alpha-mannosidases which inhibit glycoprotein processing. Inhibits human endoplasmic reticulum alpha-1,2-mannosidase I and Golgi Class I mannosidases IA, IB and IC with Ki values of 130 and 23 nM respectively.2 Inhibition of endoplasmic reticulum alpha-mannosidase I activity rescues the human alpha-sarcoglycan R77C mutation suggesting a new pharmacological approach for limb girdle muscular dystrophy type 2D patients carrying mutations that impair alpha-sarcoglycan trafficking.3 Improves maturation of misfolded proteins.4</p> |