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## Product Datasheet

### **MBQ-167, CAS [[2097938-73-1]] FBM-10-4434**

|                          |                                  |
|--------------------------|----------------------------------|
| Artikelname              | MBQ-167, CAS [[2097938-73-1]]    |
| Artikelnummer            | FBM-10-4434                      |
| Hersteller Artikelnummer | 10-4434                          |
| Alternativnummer         | FBM-10-4434-5MG,FBM-10-4434-25MG |
| Hersteller               | Focus Biomolecules               |
| Kategorie                | Biochemikalien                   |
| Produktbeschreibung      | Rac/Cdc42 inhibitor...           |
| Molekulargewicht         | 338.41                           |
| Reinheit                 | >98% by HPLC NMR (Conforms)      |
| Formulierung             | Off-white solid                  |
| CAS Nummer               | [2097938-73-1]                   |
| Formel                   | C22H18N4                         |

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| Anwendungsbeschreibung | <p>Dual inhibitor of the Rho GTPases Rac (IC<sub>50</sub> = 103 nM) and Cdc42 (IC<sub>50</sub> = 78 nM).<sup>1</sup> It inhibits breast cancer cell migration, viability, and mammosphere formation. MBQ-167 induced polarity loss resulting in 95% cell rounding and detachment from the substratum in metastatic MDA-MB-231 cells and was active in GFP-HER2-BM, MDA-MB-468, and Hs578t breast cancer cells as well as Mia-PaCa-2 pancreatic cancer cells, SKOV3 ovarian cancer cells, AGS and NCI-N87 gastric cancer cells, and SH-SY5Y neuroblastoma cells. Non-cancerous mammary epithelial MCF10A and epithelial breast cancer MCF-7 cells were resistant to MBQ-167. MBQ-167 inhibited viability and induced apoptosis in gefitinib and lapatinib resistant SKBR3 breast cancer cells.<sup>2</sup> MBQ-167 inhibited triple negative breast cancer tumor growth and lung metastasis in a mouse model.<sup>3</sup> Active in vivo.</p> |
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