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## Product Datasheet

### **KIRA6, CAS [[1589527-65-0]]** **FBM-10-4886**

|                          |                                  |
|--------------------------|----------------------------------|
| Artikelname              | KIRA6, CAS [[1589527-65-0]]      |
| Artikelnummer            | FBM-10-4886                      |
| Hersteller Artikelnummer | 10-4886                          |
| Alternativnummer         | FBM-10-4886-5MG,FBM-10-4886-25MG |
| Hersteller               | Focus Biomolecules               |
| Kategorie                | Biochemikalien                   |
| Produktbeschreibung      | IRE1alpha inhibitor...           |
| Molekulargewicht         | 518.54                           |
| Reinheit                 | >98% by HPLC NMR (Conforms)      |
| Formulierung             | White solid                      |
| CAS Nummer               | [1589527-65-0]                   |
| Formel                   | C28H25F3N6O                      |

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| Anwendungsbeschreibung | <p>KIRA6 is an allosteric inhibitor of the endoplasmic reticulum protein IRE1alpha.<sup>1</sup> It inhibits IRE1alpha kinase activity (IC<sub>50</sub> = 0.60 μM), XBP1 RNA cleavage, Ins2 RNA cleavage, and oligomerization. KIRA6 prevented cell death during ER stress/UPR in vivo. It reduced stress-induced inflammation caused by immunogenic cell death via targeting of HSP60.<sup>2</sup> KIRA6 abolished neuroinflammation and neuronal cell death caused by PAD4 overexpression in traumatic brain injury.<sup>3</sup> It also was shown to block leukotriene biosynthesis in human phagocytes<sup>4</sup> and inhibit mast cells<sup>5</sup>. KIRA6 blocked the induction of myeloid-derived suppressor cells and overcame resistance to anti-PD-1 therapy in 4T1 tumor cells.<sup>6</sup></p> |
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