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## Product Datasheet

### Compound 147, CAS [[393121-74-9]] FBM-10-3973

|                            |                                             |
|----------------------------|---------------------------------------------|
| Article Name               | Compound 147, CAS [[393121-74-9]]           |
| Biozol Catalog Number      | FBM-10-3973                                 |
| Supplier Catalog Number    | 10-3973                                     |
| Alternative Catalog Number | FBM-10-3973-10MG,FBM-10-3973-50MG           |
| Manufacturer               | Focus Biomolecules                          |
| Category                   | Biochemikalien                              |
| Product Description        | ER stress sensing protein ATF6 activator... |
| Molecular Weight           | 255.32                                      |
| Purity                     | 98% by HPLC , NMR (Conforms)                |
| Form                       | Beige to pale orange solid                  |
| CAS Number                 | [393121-74-9]                               |
| Formula                    | C16H17NO2                                   |

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| Application Notes | <p>Preferential activator of the ER stress sensing protein ATF6.<sup>1</sup> It was able to selectively reduce secretion and extracellular aggregation of destabilized amyloidogenic variants of TTR and LC proteins. AA147-dependent ATF6 activation proceeds via metabolic activation to a reactive electrophile that selectively modifies ER proteins including multiple protein disulfide isomerases.<sup>2</sup> AA147 suppressed pluripotency and promoted human stem cell differentiation toward a mesodermal lineage via ER expansion.<sup>3</sup> It protected the heart against ischemia/reperfusion (I/R) injury in a mouse model of acute myocardial infarction in an ATF6-dependent manner.<sup>4</sup> Brain, kidney, and liver tissue was also protected from I/R damage and impaired proteostasis. AA147 reduced infection of multiple strains of dengue and Zika viruses in an ATF6-independent manner.<sup>5</sup> Protects against glutamate-induced cell death in a neuronal-derived cell culture model.<sup>6</sup> See companion inhibitor 10-3974.</p> |
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