

Please note: This document was created automatically and is not a substitute for the manufacturer's original document.

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

Application Notes	<p>Preferential activator of the ER stress sensing protein ATF6.¹ 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.² AA147 suppressed pluripotency and promoted human stem cell differentiation toward a mesodermal lineage via ER expansion.³ It protected the heart against ischemia/reperfusion (I/R) injury in a mouse model of acute myocardial infarction in an ATF6-dependent manner.⁴ 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.⁵ Protects against glutamate-induced cell death in a neuronal-derived cell culture model.⁶ See companion inhibitor 10-3974.</p>
-------------------	---