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Product Datasheet

FPS-ZM1

FBM-10-4616

Article Name	FPS-ZM1
Biozol Catalog Number	FBM-10-4616
Supplier Catalog Number	10-4616
Alternative Catalog Number	FBM-10-4616-10MG,FBM-10-4616-50MG
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	RAGE inhibitor...
Molecular Weight	327.85
Purity	98% by HPLC, NMR (Conforms)
Form	Off-White solid
CAS Number	[945714-67-0]
Formula	C ₂₀ H ₂₂ CINO

Application Notes

FPS-ZM1 is a high-affinity Receptor for Advanced Glycation End products (RAGE) inhibitor ($IC_{50} = 0.6 \mu M$). It is able to lower levels of Abeta via binding to the V domain of RAGE and can block multiple mechanisms of Abeta40- and Abeta42-induced cellular stress in RAGE-expressing brain endothelium, neurons and microglia in vitro and in vivo.^{1,2} Can cross the BBB. In a rat model of intracerebral hemorrhage, FPS-ZM1 was able to attenuate blood-brain barrier and white matter fiber damage.³ FPS-ZM1 inhibition of RAGE was able to ameliorate inflammatory damage after acute intracerebral hemorrhage via downstream blockade of high mobility box-1(HMGB1) signaling.⁴ FPS-ZM1 has also been shown to impair breast cancer cell invasion and metastasis.⁵