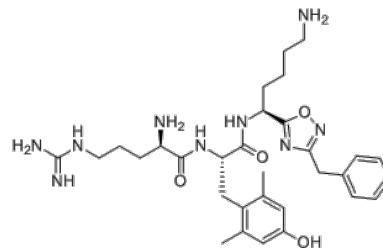


Product Name : SBT-272
Cat. No. : PC-49721
CAS No. : 2356106-71-1
Molecular Formula : C₃₁H₄₅N₉O₄
Molecular Weight : 607.76
Target : Other Targets
Solubility : 10 mM in DMSO



Biological Activity

SBT-272 (Bevemipretide) is a brain-penetrant small molecule that stabilizes **cardiolipin**, a phospholipid found in inner mitochondrial membrane (IMM), thereby restoring mitochondrial structure and respiratory function. SBT-272 significantly reduced H₂O₂ production in vitro in permeabilized rat cardiac fibers, reduced the production of blood urea nitrogen (BUN) and creatinin, SBT-272 (4 mg/kg) prevented ischemia-reperfusion injury to mitochondria in vivo. SBT-272 improves mitochondrial integrity of CSMN diseased with TDP-43 pathology. SBT-272 increases mitochondrial membrane polarization in diseased UMNs. SBT-272 treatment improves mitochondrial motility in diseased CSMN. SBT-272 enhances axon outgrowth of diseased CSMN, improves CSMN mitochondria ultrastructure in vivo. SBT-272 is a small molecule in phase I clinical development with a mechanism of action that improves the integrity of IMM.

References

Mukesh Gautam, et al. *Neurobiol Dis.* 2023 Jan 27;178:106022.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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