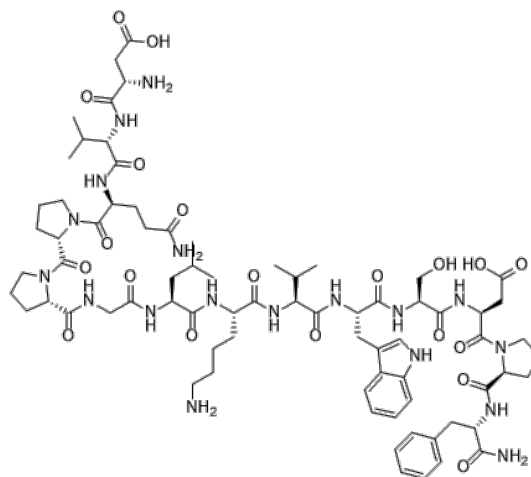


Product Name : Phoenixin-14
Cat. No. : PC-27779
CAS No. : 1415039-79-0
Molecular Formula : C₇₅H₁₁₀N₁₈O₂₀
Molecular Weight : 1583.78
Target : Other Targets
Solubility : 10 mM in DMSO



Asp-Val-Gln-Pro-Pro-Gly-Leu-Lys-Val-Trp-Ser-Asp-Pro-Phe-NH₂

Biological Activity

Phoenixin-14 (PNX-14) is an endogenous neuropeptide with multiple biological activities and endogenous ligand of **GPR173**.

Phoenixin-14 reduces ROS production by inhibiting the HMGB1/TLR4/MyD88/NF-κB signaling axis, thereby exerting antioxidant and mitochondrial protective effects.

Phoenixin-14 inhibits FOXO3 phosphorylation by upregulating SIRT3 expression, suppresses apoptosis, and improves myocardial systolic/diastolic function.

Phoenixin-14 resists ferroptosis by activating the ATF4/SLC7A11/GPX4 axis, activates ERK1/2 phosphorylation via GPR173.

References

Mlyczyńska E, et al. **Biol Reprod.** 2024;110(1):154-168.

Yao B, et al. **Arch Physiol Biochem.** 2024;130(1):110-118.

Ma H, et al. 2020 Aug 15;689:108411.

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

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