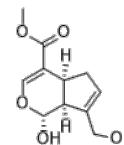


Product Name : Genipin
Cat. No. : PC-23649
CAS No. : 6902-77-8
Molecular Formula : C₁₁H₁₄O₅
Molecular Weight : 226.23
Target : Other Targets
Solubility : 10 mM in DMSO



Biological Activity

Genipin is a specific small molecule inhibitor of uncoupling protein 2 (UCP2), inhibits UCP2-mediated mitochondrial proton leak.

Genipin does not scavenge superoxide. Genipin inhibits HNE-activated, UCP2-mediated mitochondrial proton leak.

Genipin does not affect other mitochondrial transport functions in liver mitochondria.

Genipin increases mitochondrial membrane potential, increases ATP levels, closes KATP channels, and stimulates insulin secretion in a UCP2-dependent manner.

Genipin reverses high glucose- and obesity-induced β cell dysfunction.

References

Zhang CY, et al. Cell Metab. 2006 Jun;3(6):417-27.

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

E-mail: tech@probechem.com