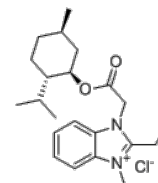


Product Name : Gboxin
Cat. No. : PC-36144
CAS No. : 2101315-36-8
Molecular Formula : C₂₂H₃₃ClN₂O₂
Molecular Weight : 392.968
Target : ATP Synthase
Solubility : 10 mM in DMSO



Biological Activity

Gboxin is a small molecule **oxidative phosphorylation** inhibitor that specifically inhibits the growth of primary mouse and human glioblastoma cells, but not cycling primary MEFs or astrocytes.

Gboxin inhibits cellular oxygen consumption and interacts with GBM OxPhos proteins, mirrors oligomycin activity and resistance requires functional mPTP.

Gboxin specifically inhibits the growth of primary mouse and human glioblastoma cells (primary GBM IC₅₀=150 nM) but not that of mouse embryonic fibroblasts or neonatal astrocytes.

Gboxin is an oxidative phosphorylation inhibitor that targets glioblastoma, inhibits the activity of **FOF1 ATP synthase**, mirrors oligomycin activity and resistance requires functional mPTP.

Gboxin targets unique features of mitochondrial pH in GBM and other cancer cells, independent of their genetic composition, and exerts its tumor cell specific toxicity in primary culture and in vivo.

References

Shi Y, et al. *Nature*. 2019 Mar;567(7748):341-346.

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

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