

## Monoamine oxidase B

**Monoamine oxidase B** (MAOB) is highly expressed in **glioblastoma** cell mitochondria, and mitochondrial function is intimately tied to treatment-resistant glioblastoma progression. These glioblastoma properties provide a strong rationale for pursuing a MAOB-selective pro-drug treatment approach that, upon drug activation, targets glioblastoma mitochondria, especially mitochondrial DNA. MP-MUS is the lead compound in a family of pro-drugs designed to treat GBM that is converted into the mature, mitochondria-targeting drug, P(+)-MUS, by MAOB.

Sharpe et al., show that MP-MUS can successfully kill primary gliomas in vitro and in vivo mouse xenograft models.

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