

A phase 2 trial with ABI-009 (nab-sirolimus) as single-agent and combinations in recurrent high-grade glioma (rHGG) and in newly diagnosed glioblastoma (ndGBM)



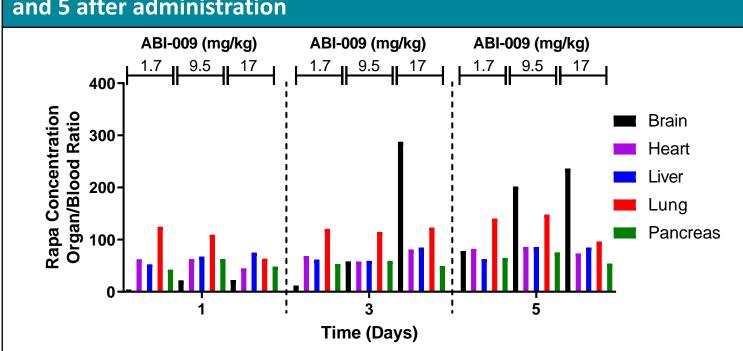
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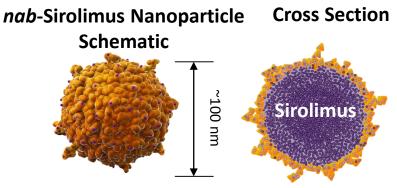
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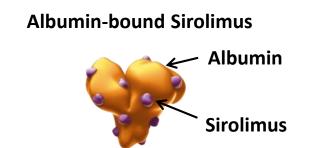
BACKGROUND

The mTOR pathway is frequently activated in patients with GBM and is associated with reduced survival, making this pathway a promising target. However, mTOR inhibitors, including everolimus and temsirolimus, have poor brain penetration, limiting their potential use for GBM. *nab*-Sirolimus (ABI-009) is a novel albumin-bound mTOR inhibitor that has a distinct PK profile and biodistribution, including CNS penetration.¹

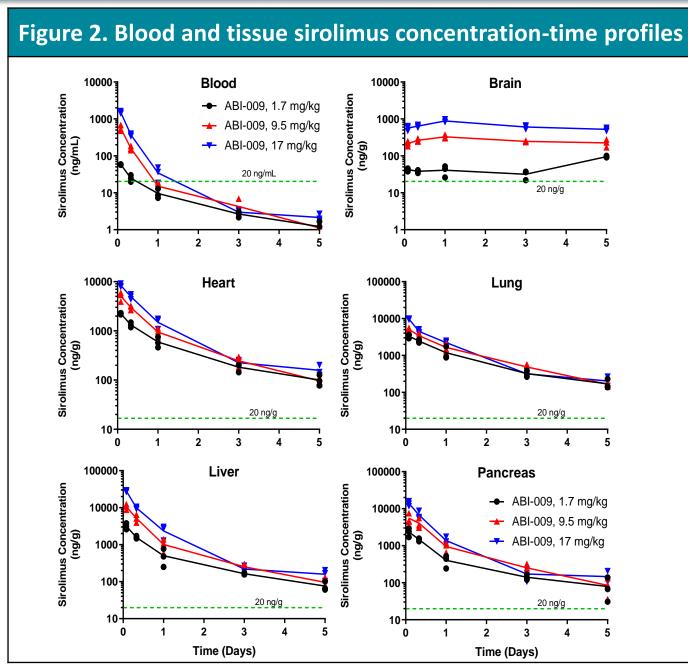
Figure 1. Tissue vs blood sirolimus concentration ratios at days 1, 3, and 5 after administration







Brain levels of sirolimus from ABI-009 were maintained steady over the 5-day period tested suggesting a retention and accumulation in brain tissue. This was in contrast to the several tissues tested which showed a drop in sirolimus over time.

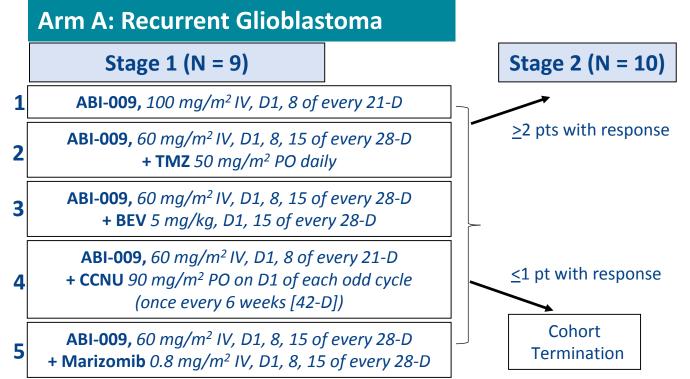


The goal of this prospective open-label phase 2 study is to evaluate the efficacy and safety of nab-sirolimus monotherapy and combination therapies in rHGG and ndGBM

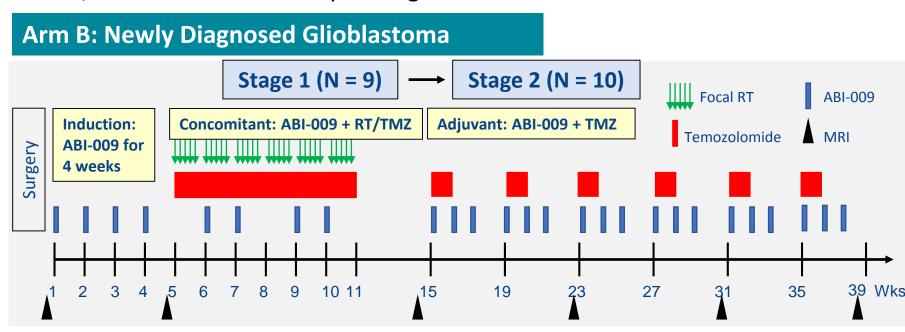
METHODS

- Eligible patients are ≥18 years old, KPS score ≥70, and have histologically confirmed rHGG or ndGBM.
- > Arm A has 5 cohorts in patients with rHGG, naïve to mTOR inhibitors, and Arm B enrolls patients with ndGBM, see study schema.
- > Up to 19 patients per cohort will be enrolled: initial 9 patients with a stopping rule that only if there are ≥2 responses will the study cohort proceed to further enrollment of the next 10 patients (Simon's 2-stage design).
- > Treatment will continue until disease progression or unacceptable toxicity.
- > The primary endpoint for all cohorts is overall response rate per RANO criteria; secondary endpoints are median PFS and OS, 6-month and 12-month PFS, 12-month OS, and adverse events. Exploratory endpoints are blood levels of sirolimus and biomarkers, and tumor molecular profiling.

Dose	ABI-009
Levels	Single agent
1	100
-1	75
-2	60
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Dose	ABI-009, mg/m ²
Dose Levels	ABI-009, mg/m ² + Combination
Levels	+ Combination
Levels 1	+ Combination 60
Levels 1 -1	+ Combination 60 45



> This study is actively enrolling patients. The anticipated enrollment period is 24 months. NCT03463265



REFERENCES

1. Hou et al., AACR 2019, #3896

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