

Trial in progress: A first-in-human phase 1a/b, dose-escalation/expansion study of BG-68501/ETX-197 (CDK2 inhibitor) as monotherapy or in combination with fulvestrant for patients with HR+/HER2- breast cancer and other advanced solid tumors

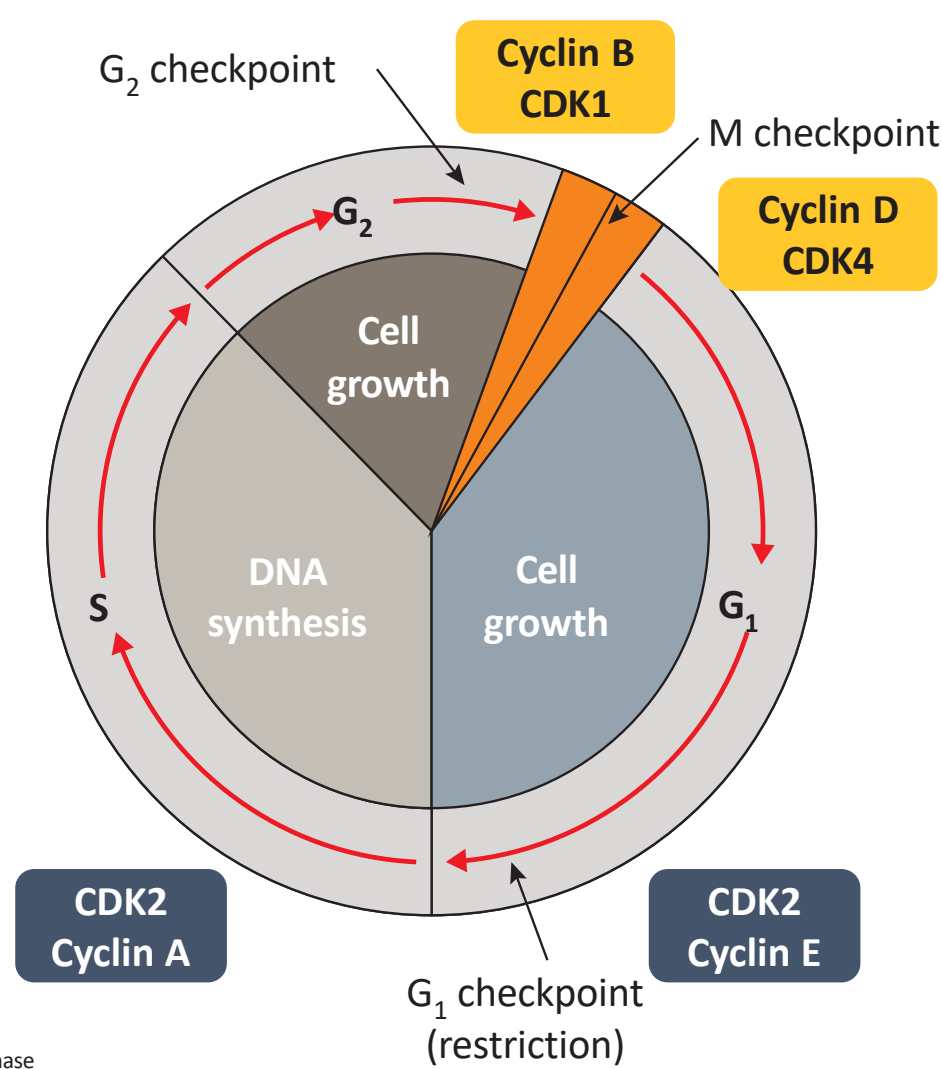
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Introduction

- CDKs are important regulators of cell cycle progression (Figure 1)
- Inhibition of CDKs has been shown to have antiproliferative effects on tumor cells¹
- Targeting both CDK2 and CDK4/6 may lead to improved antitumor activity^{2,3}
- BG-68501/ETX-197 is a potent inhibitor of CDK2 with preclinical evidence showing strong antitumor activity and superior selectivity for CDK2 over other CDK family members⁴
- This is a first-in-human, phase 1a/b, open-label, multicenter trial to evaluate the safety, tolerability, PK, and preliminary antitumor activity of oral BG-68501/ETX-197
- BG-68501/ETX-197 will be given as monotherapy for patients with advanced, nonresectable, or metastatic solid tumors, and in combination with fulvestrant ± BGB-43395 (a highly potent, selective, and orally available CDK4 inhibitor³) for patients with HR+/HER2- breast cancer (BC) (NCT06257264)

Figure 1. CDK2 Forms a Complex with Cyclin E and Cyclin A to Regulate the G₁/S and S/G₂ Cell Cycle Transitions



CDK, cyclin-dependent kinase

Methods

Study design

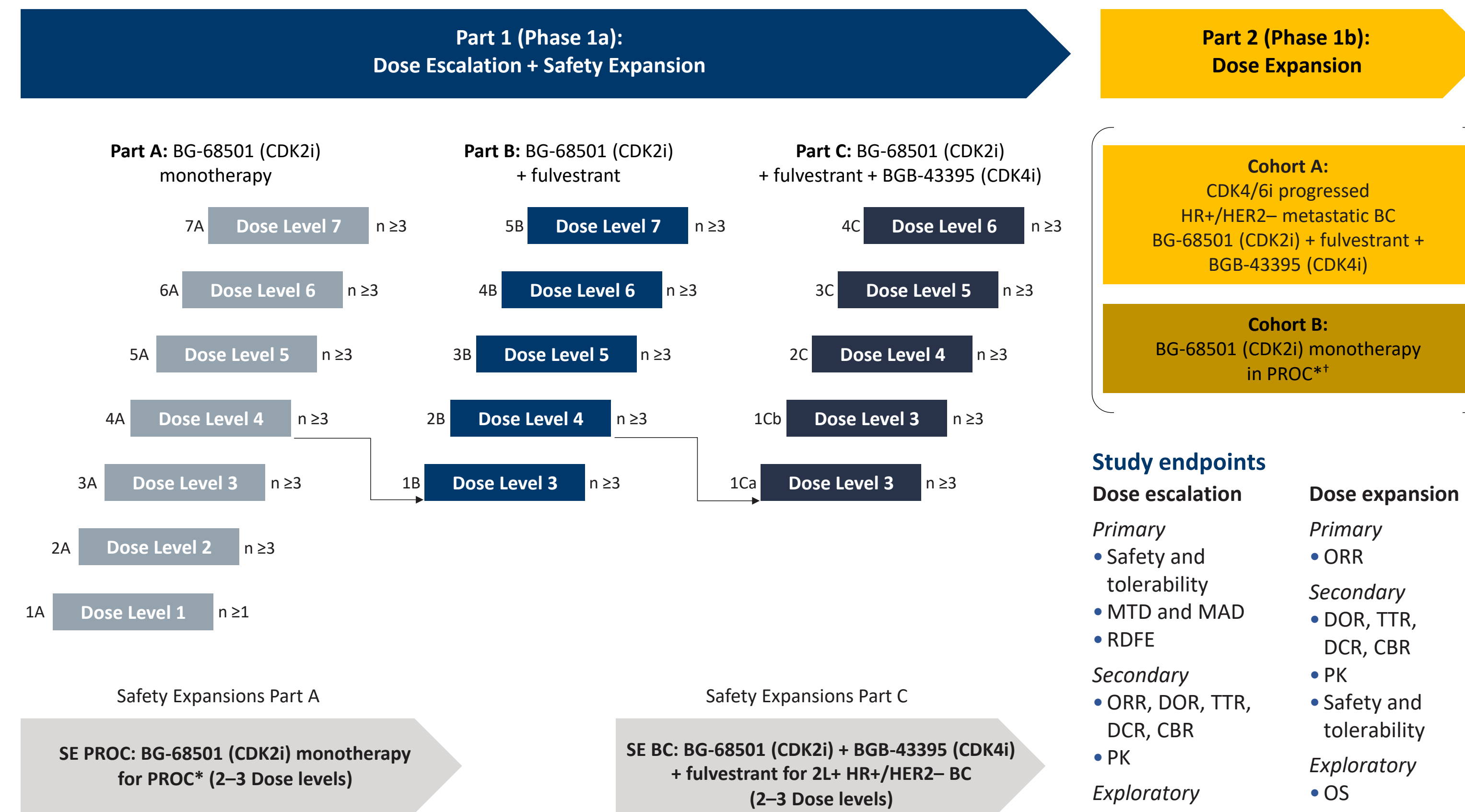
- This is a phase 1, open-label, multicenter trial consisting of two parts: dose escalation and expansion (Figure 2)

Figure 2. Study Design

Key eligibility criteria

- ≥18 years
- Advanced or metastatic solid tumors potentially associated with CDK2 dependency
- Prior available SOC systemic therapies
 - For HR+/HER2- BC: ≥1L for advanced or metastatic disease, including prior ET and a CDK4/6i (where approved/available) in either the adjuvant or advanced/metastatic setting
 - For PROC: ≥1L of platinum-containing CT for advanced disease; ≤4L in the advanced/metastatic setting
- GnRH agonists for ovarian function suppression (unless menopausal)
- GnRH agonists for males treated with fulvestrant
- ECOG PS ≤1
- Measurable disease per RECIST v1.1
- No uncontrolled/untreated brain metastases
- No prior therapy selectively targeting CDK2

Inclusion criteria for the Safety Expansion Parts A and C matches inclusion criteria for the equivalent Phase 1b dose expansion cohorts.
 *Including fallopian tube or primary peritoneal cancer. †Patients may be selected based on cyclin E1 expression; cut-off to be determined.
 2L+, second-line or greater; CBR, clinical benefit rate; DCR, disease control rate; DOR, duration of response; ET, endocrine therapy; MAD, maximum administered dose; MTD, maximum tolerated dose; ORR, objective response rate; OS, overall survival; PFS, progression-free survival; PK, pharmacokinetics; PROC, platinum-refractory or resistant serous ovarian cancer; RDFE, recommended dose for expansion; RECIST, response evaluation criteria in solid tumors; SE, safety expansion; TTR, time to response.



Study endpoints

- | Dose escalation | Dose expansion |
|---------------------------|---------------------------|
| Primary | Primary |
| • Safety and tolerability | • ORR |
| • MTD and MAD | Secondary |
| • RDFE | • DOR, TTR, DCR, CBR |
| Secondary | • PK |
| • ORR, DOR, TTR, DCR, CBR | • Safety and tolerability |
| • PK | Exploratory |
| Exploratory | • OS |
| • PFS | • Biomarkers |
| • Biomarkers | |

Methods

Statistical methods

- The dose escalation will proceed according to the modified toxicity probability interval-2 method^{5,6}
- Data collected will be reported using summary tables and figures. Categorical variables will be summarized by frequency distributions, and continuous variables will be summarized by descriptive statistics
- For time-to-event variables, percentages of patients experiencing that event will be presented, and median time-to-event will be estimated using Kaplan-Meier methodology

Conclusions

- BG-68501/ETX-197 is being assessed as monotherapy for patients with advanced solid tumors and in combination with fulvestrant ± BGB-43395 for patients with HR+/HER2- BC in a first-in-human, phase 1, dose-escalation and expansion study
- This study will provide insights into the clinical effects of targeting CDK2 in solid tumors
- As of October 29, 2024, recruitment is ongoing, with 11 sites open across 3 countries (Australia, China, and US) and 21 patients dosed

Contact

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