

EntreMed Commences Continuous Dosing Clinical Trial For MKC-1

Phase 1 Study to be Conducted in Advanced Cancer Patients

ROCKVILLE, Md., April 2, 2008 — EntreMed, Inc. (Nasdaq: ENMD), a clinical-stage pharmaceutical company developing therapeutics for the treatment of cancer and inflammatory diseases, today announced that it has commenced a Phase 1, open-label, continuous dosing study with its oral cell cycle inhibitor, MKC-1, in patients with advanced or metastatic solid tumors. The clinical trial will be conducted at the University of Wisconsin, Paul P. Carbone Comprehensive Cancer Center. Dr. Glenn Liu, Assistant Professor of Medicine, University of Wisconsin, will serve as principal investigator.

The purpose of the dose-escalation trial is to determine the maximum tolerated dose (MTD) of MKC-1 administered orally twice a day continuously in advanced or refractory solid tumor patients. Response and/or tumor marker improvement will also be evaluated. Up to 24 patients with metastatic or unresectable solid tumors for which standard curative measures do not exist or are no longer effective will be enrolled.

MKC-1 is a novel, orally-active cell cycle inhibitor with in vitro and in vivo efficacy against a broad range of human solid tumor cell lines, including multi-drug resistant cell lines. Data from previous studies with MKC-1 demonstrate broad-acting antitumor effects, showing tumor growth inhibition or regression in multiple preclinical models, including paclitaxel-resistant models. To date, MKC-1 has been evaluated in over 400 patients in multiple Phase 1 and 2 clinical trials.

MKC-1 has been shown to induce apoptosis, inhibit mitotic spindle formation, and prevent chromosome segregation in the M-phase (mitosis) of the cell cycle. Furthermore, MKC-1 inhibits the PI3K-Akt-mTOR signaling pathways, which may occur through inhibition of the mTOR/ricor pathway. The PI3K-Akt-mTOR pathway is the most frequently mutated pathway in human tumors. Mutations in this pathway have been shown to promote tumor progression and decrease survival in cancer patients.

"The potential of increasing drug activity by exploiting its inhibitory effects on the PI3K-Akt-mTOR pathway is exciting and we hope to define this effect with novel molecular imaging techniques," commented Dr. Glenn Liu.

EntreMed Vice President and Chief Medical Officer, Carolyn F. Sidor, M.D., M.B.A., commented on the study, "This will be our first continuous dosing study for MKC-1 in patients with solid tumors. We believe that a continuous dosing schedule has the potential to improve tolerability and enhance MKC-1 activity in cancer patients, similar to increased antitumor activity that sustained exposure has demonstrated in preclinical studies. Through this Phase 1 study, we expect to determine not only the maximum tolerated dose of MKC-1 when administered orally twice a day on a continuous basis, but the pharmacodynamic changes using imaging techniques as proof of drug effect and assessment of toxicity."

About EntreMed

EntreMed, Inc. is a clinical-stage pharmaceutical company developing therapeutic candidates primarily for the treatment of cancer and inflammation. MKC-1 is currently in multiple Phase 2 clinical trials for cancer. MKC-1 is an oral cell-cycle regulator with activity against the mTOR pathway. ENMD-1198, a novel antimetabolic agent, is in a Phase 1 study in advanced cancer patients and ENMD-2076, a selective kinase inhibitor, is expected to begin a Phase 1 study in 2Q08. The Company also has an approved IND application for Panzem(R) in rheumatoid arthritis. EntreMed's goal is to develop and commercialize new compounds based on the Company's expertise in angiogenesis, cell-cycle regulation and inflammation — processes vital to the treatment of cancer and other diseases, such as rheumatoid arthritis. Additional information about EntreMed is available on the Company's web site at www.entremed.com and in various filings with the Securities and Exchange Commission.

Forward Looking Statements

This release contains forward-looking statements within the meaning of the Private Securities Litigation Reform Act with respect to the outlook for expectations for future financial or business performance (including the timing of royalty revenues and future R&D expenditures), strategies, expectations and goals. Forward-looking statements are subject to numerous assumptions, risks and uncertainties, which change over time. Forward-looking statements speak only as of the date they are made, and no duty to update forward-looking statements is assumed. Actual results could differ materially from those currently anticipated due to a number of factors, including those set forth in Securities and Exchange Commission filings under "Risk Factors," including risks relating to the need for additional capital and the uncertainty of additional funding; variations in actual sales of Thalomid(R), risks associated with the Company's product candidates; the early-stage products under

development; results in preclinical models are not necessarily indicative of clinical results, uncertainties relating to preclinical and clinical trials; success in the clinical development of any products; dependence on third parties; future capital needs; and risks relating to the commercialization, if any, of the Company's proposed products (such as marketing, safety, regulatory, patent, product liability, supply, competition and other risks).

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