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ENTREMED SHOWS INCREASED SURVIVAL WITH MKC-1 IN PRECLINICAL RENAL CELL CANCER MODEL

Results Consistent with MKC-1 Akt-mTOR Inhibitor Mechanism

ROCKVILLE, MD – October 25, 2007 – EntreMed, Inc. (Nasdaq: ENMD), a clinical-stage pharmaceutical company developing therapeutics for the treatment of cancer and inflammatory diseases, today announced the presentation of results for its cell cycle inhibitor, MKC-1, in preclinical renal cell carcinoma (RCC) models. The results were presented at the AACR-NCI-EORTC International Conference on Molecular Targets and Cancer Therapeutics in San Francisco, California.

Activation of the oncogenic kinase Akt and the mTOR pathway are known to be adverse prognostic factors and contributors to the pathology of metastatic RCC, therefore inhibitors of these pathways are of significant interest for treatment of this disease. Human RCC cell lines *in vitro* were shown to have marked sensitivity to MKC-1. MKC-1 inhibited both Akt and mTOR pathway activation *in vitro*, and was further evaluated in a preclinical model consisting of a xenograft of the human RCC cell line, Caki-1. Orally-administered MKC-1, but not sunitinib malate (Sutent®), significantly increased survival of tumor-bearing animals in this model. Examination of tumors following five days of oral treatment with MKC-1 revealed inhibition of the Akt-mTOR pathway, as well as decreased angiogenesis and cell proliferation within the tumors. These preclinical results support further evaluation of MKC-1 for the treatment of renal cell carcinoma.

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. MKC-1 has been shown to inhibit mitotic spindle formation, prevent chromosome segregation in the M-phase (mitosis) of the cell cycle, and induce apoptosis. Furthermore, MKC-1 inhibits the Akt-mTOR signaling pathways, which may occur through inhibition of the mTOR/rictor pathway. The Akt-

mTOR pathway is the most frequently mutated pathway in human tumors and mutations have been shown to promote tumor progression and decrease survival in cancer patients.

Mark R. Bray, Ph.D., EntreMed Vice President, Research, commented on the results, "Data from preclinical studies with MKC-1 continue to support its therapeutic potential in a variety of tumor types. The data are consistent with MKC-1 targeting the mTOR pathway by a mechanism that is distinct from rapamycin-like agents, such as Temosirolimus. These results, along with the recent success of agents that target the mTOR pathway, provide validation that clinical studies with MKC-1 in cancers such as renal cell are warranted. MKC-1 is currently in clinical trials in metastatic breast cancer, non-small cell lung cancer, and leukemia."

To view the poster presentation, visit the Company's web site at www.entremed.com.

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About EntreMed

EntreMed, Inc. is a clinical-stage pharmaceutical company developing therapeutic candidates primarily for the treatment of cancer and inflammation. Panzem® NCD (2-methoxyestradiol or 2ME2) is currently in multiple Phase 2 clinical trials for cancer. MKC-1, an oral cell-cycle regulator, is in multiple Phase 1 and 2 studies for cancer. ENMD-1198, a novel tubulin-binding agent, is in Phase 1 studies in advanced cancers. Panzem® is also in preclinical development for rheumatoid arthritis, and ENMD-2076, a dual-acting Aurora-angiogenesis inhibitor, is in preclinical development for cancer. 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®, 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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