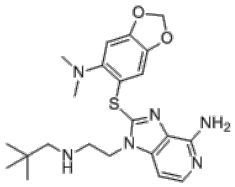
ProbeChem®
Expedite Your Scientific Research

WWW.PROBECHEM.COM

Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	Debio 0932
Cat. No.	:	PC-49868
CAS No.	:	1061318-81-7
Molecular Formula	:	$C_{22}H_{30}N_6O_2S$
Molecular Weight	:	442.58
Target	:	Heat Shock Protein (HSP)
Solubility	:	10 mM in DMSO



Biological Activity

Debio 0932 (CUDC-305, RGRN-305) is a highly potent, oral and BBB-penetrant **HSP90** inhibitor, shows high affinity for HSP90alpha/beta and HSP90 complex derived from cancer cells with IC50 of 100 nM and 48.8 nM, respectively.
Debio 0932 (CUDC-305) displays potent antiproliferative activity against a broad range of cancer cell lines with mean IC50 of 220 nM.
Debio 0932 (CUDC-305) exhibits dose-dependent antitumor activity in an s.c. xenograft model of U87MG glioblastoma and significantly prolongs animal survival in U87MG orthotopic model.
Debio 0932 (CUDC-305) also displays potent antitumor activity in animal models of erlotinib-resistant non-small cell lung cancer and induces tumor regression in animal models of MDA-MB-468 breast cancer and MV4-11 acute myelogenous leukemia.
Debio 0932 (CUDC-305) binds strongly to HSP90 extracted from erlotinib-resistant NSCLC cells (IC50=70 nM).
Debio 0932 (CUDC-305) potently inhibits tumor growth in subcutaneous xenograft models of H1975 and A549, which harbor EGFR T790M mutation or K-ras mutations conferring acquired and primary erlotinib resistance, respectively.

References

Bao R, et al. ***Clin Cancer Res***. 2009 Jun 15;15(12):4046-57.

Bao R, et al. ***Mol Cancer Ther***. 2009 Dec;8(12):3296-306.

Isambert N, et al. ***Ann Onco***l. 2015 May;26(5):1005-1011.

E-mail: tech@probechem.com