

Data Sheet

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 Product Name
 :
 Debio 0932

 Cat. No.
 :
 PC-49868

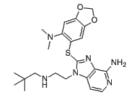
 CAS No.
 :
 1061318-81-7

 Molecular Formula
 :
 C₂₂H₃₀N₆O₂S

 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.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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