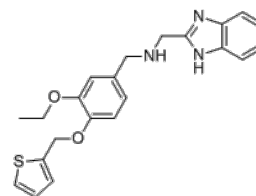


Product Name : DCEM1
Cat. No. : PC-38908
CAS No. : 878949-21-4
Molecular Formula : C₂₂H₂₃N₃O₂S
Molecular Weight : 393.505
Target : Heat Shock Protein (HSP)
Solubility : 10 mM in DMSO



Biological Activity

DCEM1 is a mitochondrial unfolded protein response (**UPR^{mt}**) inhibitor, specifically disrupts **HSP60-ClpP** interaction in PCa cells and in vitro, suppresses prostate cancer growth in vivo.

DCEM1 binds to the apical domain of HSP60.

DCEM1 did not alter the protein levels of UPR^{mt} components including HSP60, HSP10, ClpP and LONP1 in most of PCa cells and normal prostate epithelial cells, and in human embryonic HEK-293 cells.

DCEM1 robustly downregulated c-Myc and EZH2, and reduced AR and inhibited AR activity in PCa cells.

DCEM1 induced metabolic stress in PCa cells, downregulated c-Myc, EZH2 and AR as well as inhibits tumor growth in vivo.

References

Kumar R, et al. *J Clin Invest*. 2022 Jun 2:e149906.

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

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