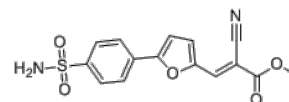


Product Name : CCI-006
Cat. No. : PC-36024
CAS No. : 292053-42-0
Molecular Formula : C₁₅H₁₂N₂O₅S
Molecular Weight : 332.33
Target : Other Targets
Solubility : 10 mM in DMSO



Biological Activity

CCI-006 (CCI 006) is a small molecule that inhibits mitochondrial respiration resulting in insurmountable mitochondrial depolarization, and selective inhibitor and chemosensitizer of MLL-rearranged leukemia cells (MLL-r).

CCI-006 inhibited mitochondrial respiration and induced mitochondrial membrane depolarization and apoptosis in a subset (7/11, 64%) of MLL-rearranged leukemia cell lines.

Silencing of HIF1 α expression sensitized an intrinsically unresponsive MLL-rearranged leukemia cell to CCI-006, indicating that HIF1 α pathway plays a role in determining sensitivity to CCI-006.

Unresponsive MLL-rearranged leukemia cells expressed increased levels of MEIS1.

CCI-006 is a novel small molecule that rapidly kills MLL-rearranged leukemia cells by targeting a metabolic vulnerability in a subset of low HIF1 α /low MEIS1-expressing MLL-rearranged leukemia cells.

References

Klaartje Somers, et al. Oncogene (2019).

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

E-mail: tech@probechem.com