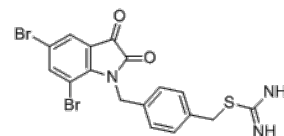


Product Name : KS100
Cat. No. : PC-38166
CAS No. : 2408477-54-1
Molecular Formula : C₁₇H₁₄Br₃N₃O₂S
Molecular Weight : 564.09
Target : Aldehyde Dehydrogenase (ALDH)
Solubility : 10 mM in DMSO



Biological Activity

ALDH inhibitor KS100 (KS100) is a novel, potent, multi-isoform **ALDH** inhibitor with IC₅₀ of 207/1410/240 nM for ALDH1A1/ALDH2/ALDH3A1, respectively.

KS100 was mitigated by development of a nanoliposomal formulation, called NanoKS100. NanoKS100 was 5-fold more selective for killing melanoma cells compared with normal human fibroblasts.

Inhibition by KS100 significantly reduced total cellular ALDH activity to increase reactive oxygen species generation, lipid peroxidation, and accumulation of toxic aldehydes leading to apoptosis and autophagy.

References

Dinavahi SS, et al. *Mol Cancer Ther.* 2020 Feb;19(2):447-459.

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

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