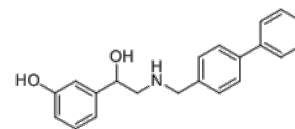


Product Name : CD147 inhibitor AC-73
Cat. No. : PC-49041
CAS No. : 775294-71-8
Molecular Formula : C₂₁H₂₁NO₂
Molecular Weight : 319.4
Target : Other Targets
Solubility : 10 mM in DMSO



Biological Activity

AC-73 is a potent, specific small molecule inhibitor of **CD147** (Response Units=63, SPR assays), AC-73 disrupts CD147 dimerization and inhibits the motility and invasion of hepatocellular carcinoma cells.

AC-73 significantly decreased the migration ability of SMMC-7721 cells in a dose-dependent manner in in vitro scratch assays, decreased the invasion of HCC cells with IC₅₀ of 10.19 μM for SMMC-7721 and 7.16 μM for Huh-7, respectively.

AC-73 inhibits the invasion of HCC cells by reducing MMP-2 production through blocking CD147-stimulated MAPK/STAT3 signaling.

AC-73 (25 mg/kg, 50 mg/kg, intrahepatic injection) reduced tumor metastasis by affecting the CD147/ERK1/2/STAT3 pathways in orthotopic HCC transplant nude mouse model, with low toxicity and well tolerance in nude mice.

AC-73 likely binds to the dimer interface of CD147, the N-terminal IgC2 domain of CD147.

References

Spinello I, et al. *Haematologica*. 2019 May;104(5):973-985.

Fu ZG, et al. *Oncotarget*. 2016 Feb 23;7(8):9429-47.

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

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