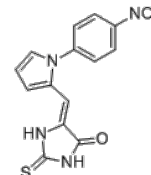


Product Name : KY-1220
Cat. No. : PC-70091
CAS No. : 292168-79-7
Molecular Formula : C₁₄H₁₀N₄O₃S
Molecular Weight : 314.319
Target : Beta-catenin
Solubility : 10 mM in DMSO



Biological Activity

KY-1220 is a small molecule destabilizer of both **β-catenin** and **Ras** via inhibition of the **Wnt/β-catenin** pathway (IC₅₀=2.1 μM).

KY-1220 dose-dependently decreases Wnt3a-CM-induced TOPflash reporter activation and mRNA expression of Wnt target genes CCND1 and MYC in HEK293 cells.

KY-1220 reduces β-catenin and pan-Ras protein levels via polyubiquitin-dependent proteasomal degradation, consequently inhibits the activities of both ERK and Akt in various CRC cell lines.

KY-1220 efficiently inhibits proliferation and transformation in HCT15, SW480, D-WT and D-MT CRC cells.

References

Cha PH, et al. *Nat Chem Biol*. 2016 Aug;12(8):593-600.

Cha PH, et al. *BMB Rep*. 2016 Sep;49(9):455-6.

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

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