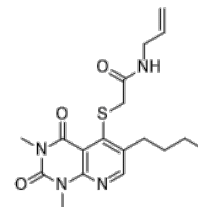


Product Name : G721-0282
Cat. No. : PC-23541
CAS No. : 946378-12-7
Molecular Formula : C₁₈H₂₄N₄O₃S
Molecular Weight : 376.48
Target : Chitinase
Solubility : 10 mM in DMSO



CAS: 946378-12-7

Biological Activity

G721-0282 is a specific small molecule inhibitor of chitinase-3 like-protein-1 (**CHI3L1**, YKL-40), inhibits cell growth and induces apoptosis in human osteosarcoma through down-regulation of the STAT3 pathway. G721-0282 inhibits cell growth in osteosarcoma cells, induces apoptosis and cell cycle arrests in MG63 and U2OS cells. G721-0282 regulates apoptotic regulatory proteins and MAPK proteins, inhibits the STAT3 pathways. G721-0282 inhibits cell migration, invasion and in vitro colony formation. G721-0282 inhibits tumorigenesis in in vivo xenograft nude mice. G721-0282 inhibited the phosphorylation of Src kinase and the phosphorylation of STAT3. G721-0282 reduced the expression of the STAT3 target proteins, Bcl-2 and Survivin.

References

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Rusak A, et al. *Biomed Pharmacother.* 2023 May;161:114520.

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

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