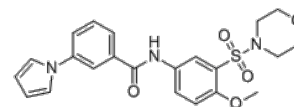


Product Name : NCGC00378430
Cat. No. : PC-72451
CAS No. : 920650-00-6
Molecular Formula : C₂₂H₂₃N₃O₅S
Molecular Weight : 441.502
Target : Other Targets
Solubility :



Biological Activity

NCGC00378430 (Compound 8430) is a novel small molecule compound that reduces the **SIX1/EYA2 interaction** in vitro with IC₅₀ of 52 μM in the Alphascreen assay.

NCGC00378430 partially reversed transcriptional and metabolic profiles mediated by SIX1 overexpression and reversed SIX1-induced TGF-β signaling and epithelial-mesenchymal transition (EMT), also reverses SIX1-induced TGF-β signaling and EMT in vitro in breast cancer cells.

NCGC00378430 had little toxicity in vivo.

NCGC00378430 disrupts the SIX1-EYA2 interaction and transcriptional activity, partially reverses SIX1-mediated transcriptional and metabolic signatures in breast tumor cells.

NCGC00378430 inhibits TGF-β signaling and EMT in breast cancer cells with high SIX1 expression.

NCGC00378430 inhibits metastasis of breast cancer cells expressing high levels of SIX1 in vivo.

References

Hengbo Zhou, et al. Cancer Res. 2020 Jun 15;80(12):2689-2702.

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

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