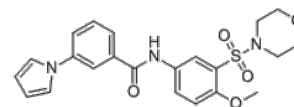


Product Name : NCGC00378430
Cat. No. : PC-72451
CAS No. : 920650-00-6
Molecular Formula : C₂₂H₂₃N₃O₅S
Molecular Weight : 441.502
Target : Other Targets
Solubility : 10 mM in DMSO



Biological Activity

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