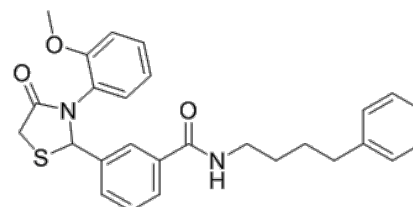


Product Name : WJ460
Cat. No. : PC-35673
CAS No. : 1415251-36-3
Molecular Formula : C₂₇H₂₈N₂O₃S
Molecular Weight : 460.592
Target : Other Targets
Solubility : 10 mM in DMSO



Biological Activity

WJ460 (Myoferlin inhibitor WJ460, WJ-460) is a small molecule targeting **myoferlin (MYOF)**, exerts anti-metastatic activity in the nanomolar range in breast cancer cells with IC₅₀ of 43.37 nM in MDA-MB-231 and 36.40 nM in BT549 cells. WJ460 significantly suppresses capillary-like tube formation of human umbilical vein endothelial cells (HUVECs), diminishes the level of phospho-VEGFR-2 and total VEGFR-2 in spontaneous metastasis mouse model. WJ460 abrogates breast cancer lung extravasation and colonization in vivo. WJ460 directly targets MYOF, binds to MYOF C2 domain (C2D) with K_d of 1.33 μM, facilitates the dissociation of MYOF in Rab7-positive late endosomes, reverses highly metastatic mesenchymal-like breast cancer cells back to an epithelial state and attenuates the metastatic ability in other tumors.

References

Zhang T, et al. *Nat Commun.* 2018 Sep 13;9(1):3726.

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

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