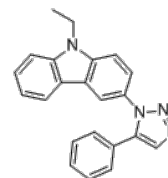


Product Name : MBQ-167
Cat. No. : PC-60905
CAS No. : 2097938-73-1
Molecular Formula : C₂₂H₁₈N₄
Molecular Weight : 338.414
Target : Small GTPase
Solubility : 10 mM in DMSO



Biological Activity

MBQ-167 (MBQ 167, MBQ167) is a potent, dual **Rac/Cdc42** inhibitor with IC₅₀ of 103/78 nM, respectively, in metastatic breast cancer cells.

MBQ-167 significantly decreases Rac and Cdc42 downstream effector p21-activated kinase (PAK) signaling and the activity of STAT3, without affecting Rho, MAPK, or Akt activities.

MBQ-167 also inhibits breast cancer cell migration, viability, and mammosphere formation; decreases metastatic cancer cell viability with GI₅₀ of 130 nM without affecting noncancer mammary epithelial cells, and causes G₂-M cell-cycle arrest and subsequent apoptosis.

MBQ-167 inhibits mammary tumor growth and metastasis in immunocompromised mice.

References

Humphries-Bickley T, et al. *Mol Cancer Ther.* 2017 May;16(5):805-818.

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

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