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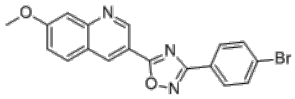
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	BT173
Cat. No.	:	PC-73293
CAS No.	:	2232180-74-2
Molecular Formula	:	$C_{18}H_{12}BrN_3O_2$
Molecular Weight	:	382.217
Target	:	DYRK
Solubility	:	10 mM in DMSO



Biological Activity

BT173 is a small molecule allosteric inhibitor of **HIPK2**-Smad3 interaction, specifically inhibits the TGF-β1/Smad3 pathway.
BT173 disrupts HIPK2-Smad3 protein-protein interaction (PPI) without significant inhibition of HIPK2 kinase activity or inhibition of p53 activation.
BT173 inhibits Smad3 phosphorylation in human kidney cells in vitro.
BT173 significantly attenuated renal fibrosis development in the UUO mice, significantly decreased Smad3 phosphorylation and α-SMA expression in the UUO kidneys.
Treatment of BT173 ameliorated kidney fibrosis in Tg26 mice.

References

Liu R, et al. ***J Am Soc Nephrol.*** 2017 Jul;28(7):2133-2143.

Caescu CI, et al. ***Arterioscler Thromb Vasc Biol.*** 2021 Sep;41(9):2483-2493.

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

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