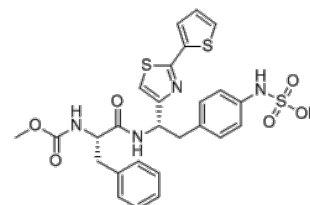


Product Name : AKB-9778
Cat. No. : PC-61676
CAS No. : 1008510-37-9
Molecular Formula : C₂₆H₂₆N₄O₆S₃
Molecular Weight : 586.70
Target : Protein Phosphatase/PTP
Solubility : 10 mM in DMSO



Biological Activity

AKB-9778 (Razuprotafib) is a potent, selective inhibitor of vascular endothelial protein tyrosine phosphatase (**VE-PTP**, HPTP β) with IC₅₀ of 17 pM.

AKB-9778 shows excellent selectivity for VE-PTP versus a variety of phosphatases, with the exception of HPTP η (IC₅₀=36 pM) and HPTP γ (IC₅₀=100 pM).

AKB-9778 activates TIE2, enhances ANG1-induced TIE2 activation, and stimulates phosphorylation of signaling molecules in the TIE2 pathway, including AKT, eNOS, and ERK.

AKB-9778 blocks VEGF-induced leakage from dermal and retinal vessels and prevents exudative retinal detachments in double-transgenic mice.

References

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Shen J, et al. *J Clin Invest.* 2014 Oct;124(10):4564-76.

Amarasinghe KK, et al. *Bioorg Med Chem Lett.* 2006 Aug 15;16(16):4252-6.

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

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