

Product Name	: Razuprotafib
Synonyms	: AKB-9778
Cat No.	: M21740
CAS Number	: 1008510-37-9
Molecular Formula	: C ₂₆ H ₂₆ N ₄ O ₆ S ₃
Formula Weight	: 586.7
Chemical Name	: —
Description	Razuprotafib (AKB-9778) is a potent and selective inhibitor of the catalytic activity of VE-PTP (vascular endothelial protein tyrosine phosphatase) with an IC₅₀ of 17 pM. Razuprotafib promotes TIE2 activation, enhances ANG1-induced TIE2 activation, and stimulates phosphorylation of signaling molecules in the TIE2 pathway, including AKT, eNOS, and ERK. Razuprotafib inhibits the structurally related phosphatase PTP1B with an IC₅₀ of 780 nM. Razuprotafib shows excellent selectivity for VE-PTP versus a variety of phosphatases, with the exception of HPTPη (IC₅₀=36 pM) and HPTPγ (100 pM).
Pathway	: Metabolic Enzyme/Protease
Target	: Phosphatase
Receptor	: —
Solubility	: DMSO : 100 mg/mL (170.44 mM; Need ultrasonic)
SMILES	: <chem>O=C([C@@H](NC(OC)=O)CC1=CC=CC=C1)N[C@H](C2=CSC(C3=CC=CS3)=N2)CC4=CC=C(NS(=O)(O)=O)C=C4</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Shen J, et al. Targeting VE-PTP activates TIE2 and stabilizes the ocular vasculature. J Clin Invest. 2014;124(10):4564-4576.