

Product Data Sheet

Product Name: Razuprotafib

Cat. No.: GC62687

Chemical Properties

Cas. No. 1008510-37-9

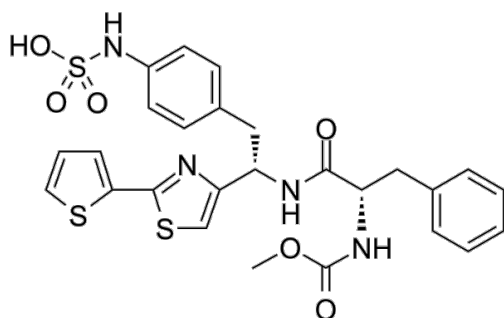
Formula $C_{26}H_{26}N_4O_6S_3$ M.Wt 586.7

Solubility DMSO : 100 mg/mL (170.44 mM; Storage -20°C avoid light
Need ultrasonic)

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

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

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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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 HPTPH (IC₅₀=36 pM) and HPTPy (100 pM)[1].

Razuprotafib (AKB-9778) promotes TIE2 phosphorylation and activation of downstream signaling in HUVECs and enhances angiopoietin-induced TIE2 phosphorylation[1].

Razuprotafib (20 mg/kg; s.c.) promotes phosphorylation of TIE2 in retinal endothelial cells in vivo[1]. Razuprotafib (10-20 mg/kg; s.c.; twice daily for 7 days) suppresses subretinal neovascularization (NV)[1].

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

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