

Product Data Sheet

Product Name: 18-Deoxyherboxidiene

Cat. No.: GC46474

Chemical Properties

Cas. No. 1200128-66-0

SMILES OC(C[C@@H]1O[C@H](/C(C)=C/C=C/[C@H](C[C@@]2([C@@]([C@@H]([C@H](CC)OC)C)(O2)[H])C)C)[C@@H](C)CC1)=O

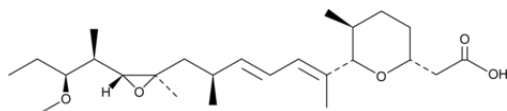
Formula C₂₅H₄₂O₅ M.Wt 422.6

Solubility DMSO: Soluble, Ethanol: Soluble, Methanol: Soluble
Storage Store at -20°C

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 sizes: ship with RT, or blue ice upon request.

Structure



Background

18-Deoxyherboxidiene is a bacterial metabolite that has been found in *Streptomyces* QN18690 and has antiangiogenic activity.¹ It binds to the SF3b subunit of spliceosome-associated protein 130 (SAP130), SAP145, or SAP155 in HeLa cell extracts when used at 100, 1,000, and 10,000 ng and induces the accumulation of unspliced mRNA in HEK293T cells in a reporter assay. 18-Deoxyherboxidiene inhibits VEGF-induced migration of human umbilical vein endothelial cells (HUVECs) in a concentration-dependent manner and VEGF-induced HUVEC tube formation when used at a concentration of 0.3 µg/ml.

1. Kakeya, H., Kaida, D., Sekiya, H., et al. RQN-18690A (18-deoxyherboxidiene) targets SF3b, a spliceosome component, and inhibits angiogenesis. *J. Antibiot. (Tokyo)* 69(2):121-123 (2016)

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

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