

Product Data Sheet

Product Name: Nedometinib

Cat. No.: GC91576

Chemical Properties

Cas. No. 2252314-46-6

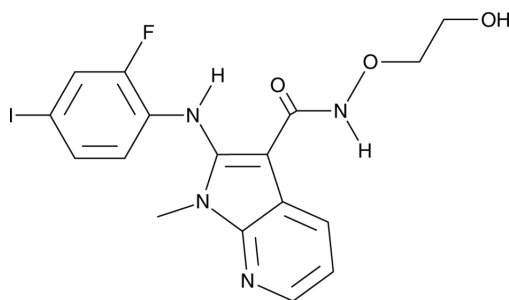
Formula $C_{17}H_{16}FIN_4O_3$ M.Wt 470.2

Solubility DMSO: Soluble, Methanol: Soluble Storage $-20^{\circ}C$

General tips For obtaining a higher solubility, please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ 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

Nedometinib is a MEK1 inhibitor ($IC_{50} = 135 \text{ nM}$).^[1] It is selective for MEK1 over a panel of 44 receptors, ion channels, and enzymes at $10 \mu\text{M}$, as well as a panel of an additional 150 kinases. Nedometinib ($0.1\text{-}10 \mu\text{M}$) decreases phosphorylation of ERK in malignant peripheral nerve sheath tumor cells. Topical application of nedometinib ($0.1\text{-}2.3\%$) reduces the total number of tumors in a mouse model of cutaneous squamous cell carcinoma induced by UV radiation.

References:

[1]. Sarin, K.Y., J., K., B., S., et al. Development of a MEK inhibitor, NFX-179, as a chemoprevention agent for squamous cell carcinoma. *Sci. Transl. Med.* 15(717)(2023).

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

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