

Product Data Sheet

Product Name: CDDO-biotin

Cat. No.: GC79812

Chemical Properties

Cas. No. 3110422-01-7

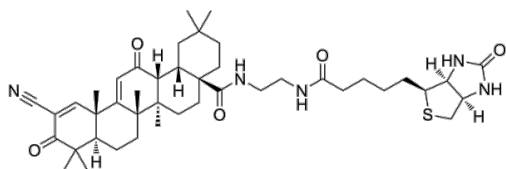
Formula $C_{43}H_{61}N_5O_5S$ M.Wt 760.04

Solubility DMSO: 100 mg/mL (131.57 mM; Need ultrasonic) 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 size: ship with RT, or blue ice upon request.

Structure



Background

CDDO-biotin is an IKK β inhibitor with cancer cell inhibitory activity. CDDO-biotin directly interacts with and oxidizes Cys-179 in the activation loop of IKK β , forming an adduct with wild-type IKK β . CDDO-biotin can be used in the research of myeloid leukemia, osteosarcoma, multiple myeloma,

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

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lung cancer, breast cancer and pancreatic cancer [1].

In Vitro, CDDO-biotin directly interacts with and oxidizes Cys179 in the activation loop of IKK β , forming an adduct with wild-type IKK β , but does not interact with the IKK β (C179A) mutant[1].

References:

[1]. Ahmad R, et al. Triterpenoid CDDO-Me blocks the NF-kappaB pathway by direct inhibition of IKKbeta on Cys-179. J Biol Chem. 2006 Nov 24;281(47):35764-9.

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