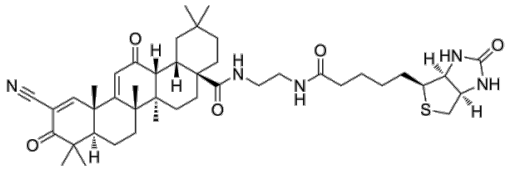
Product Data Sheet

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

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

In Vitro, CDDO-biotin directly interacts with and oxidizes Cys179 in the activation loop of IKKβ, forming an adduct with wild-type IKKβ, but does not interact with the IKKβ (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.