
Product Data Sheet

Product Name: 20-(tert-Butoxy)-20-oxoicosanoic acid

Cat. No.: GC64200

Chemical Properties

Cas. No. 683239-16-9

Formula C₂₄H₄₆O₄

M.Wt

398.62

Solubility

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

20-(tert-Butoxy)-20-oxoicosanoic acid is a non-cleavable ADC linker used in the synthesis of antibody-drug conjugates (ADCs). 20-(tert-Butoxy)-20-oxoicosanoic acid is also a alkyl chain-based PROTAC linker that can be used in the synthesis of PROTACs

ADCs are comprised of an antibody to which is attached an ADC cytotoxin through an ADC linker[1]. PROTACs contain two different ligands connected by a linker; one is a ligand for an E3 ubiquitin ligase and the other is for the target protein. PROTACs exploit the intracellular ubiquitin-proteasome system to selectively degrade target proteins[2].

[1]. Beck A, et al. Strategies and challenges for the next generation of antibody-drug conjugates. Nat Rev Drug Discov. 2017;16(5):315-337.

[2]. Nalawansha DA, et al. PROTACs: An Emerging Therapeutic Modality in Precision Medicine. Cell Chem Biol. 2020;27(8):998-985.

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

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