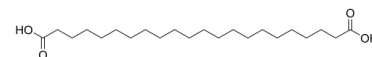


Data Sheet

Product Name:	Docosanedioic acid
Cat. No.:	CS-0086019
CAS No.:	505-56-6
Molecular Formula:	C ₂₂ H ₄₂ O ₄
Molecular Weight:	370.57
Target:	ADC Linker; PROTAC Linkers
Pathway:	Antibody-drug Conjugate/ADC Related; PROTAC
Solubility:	10 mM in DMSO



BIOLOGICAL ACTIVITY:

Docosanedioic acid is a non-cleavable ADC linker used in the synthesis of antibody-drug conjugates (ADCs). Docosanedioic acid is also a alkyl chain-based PROTAC linker that can be used in the synthesis of PROTACs^{[1][2]}. *In Vitro*: 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].

References:

- [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.

CAIndexNames:

Docosanedioic acid

SMILES:

O=C(O)CCCCCCCCCCCCCCCCCCCCC(O)=O

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

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