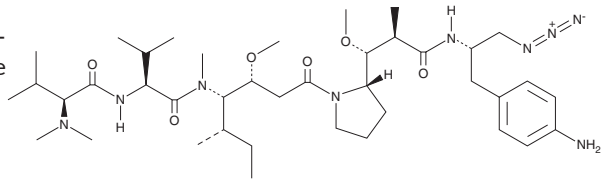
PRODUCT INFORMATION

Duostatin 5

Item No. 45986

CAS Registry No.: 2124210-34-8
Formal Name: N,N-dimethyl-L-valyl-N-[(1S,2R)-4-[((2S)-2-[((1R,2R)-3-[[((1S)-2-(4-aminophenyl)-1-(azidomethyl)ethyl]amino]-1-methoxy-2-methyl-3-oxopropyl]-1-pyrrolidinyl]-2-methoxy-1-[(1S)-1-methylpropyl]-4-oxobutyl]-N-methyl-L-valinamide
Synonym: Duo-5
MF: $C_{40}H_{69}N_9O_6$
FW: 772.0
Purity: ≥95%
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Duostatin 5 is supplied as a solid. A stock solution may be made by dissolving the duostatin 5 in the solvent of choice, which should be purged with an inert gas. Duostatin 5 is soluble (≥10 mg/ml) in ethanol and sparingly soluble (1-10 mg/ml) in DMSO.

Description

Duostatin 5 is an anticancer agent and a derivative of MMAF (Item No. 30197).[1] It has been linked to ZV05, an antibody targeting the 5T4 antigen selectively expressed by tumor cells, to form an antibody-drug conjugate (ADC). Duostatin 5 linked to ZV05 induces apoptosis and cell cycle arrest in the G_2/M phase in DU145 prostate and MDA-MB-468 breast cancer cells and reduces tumor volume in DU145 and MDA-MB-468 mouse xenograft models.

Reference

1. Shi, B., Wu, M., Li, Z., *et al.* Antitumor activity of a 5T4 targeting antibody drug conjugate with a novel payload derived from MMAF via C-lock linker. *Cancer Med.* **8(4),** 1793-1805 (2019).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

WARRANTY AND LIMITATION OF REMEDY
Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

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