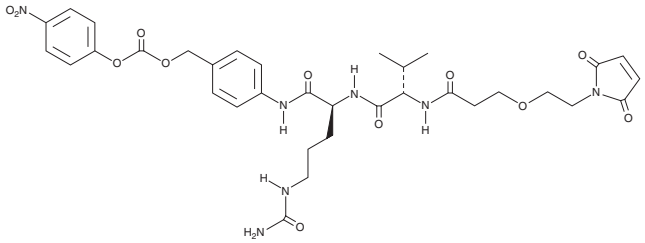
PRODUCT INFORMATION

Mal-PEG$_1$-Val-Cit-PAB-PNP

Item No. 45372

CAS Registry No.: 2249935-92-8
Formal Name: N-[3-[2-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)ethoxy]-1-oxopropyl]-L-valyl-N-(aminocarbonyl)-N-[4-[[[(4-nitrophenoxy)carbonyl]oxy]methyl]phenyl]-L-ornithinamide
MF: $C_{34}H_{41}N_7O_{12}$
FW: 739.7
Purity: ≥98%
Supplied as: A crystalline 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

Mal-PEG$_1$-Val-Cit-PAB-PNP is supplied as a crystalline solid. A stock solution may be made by dissolving the Mal-PEG$_1$-Val-Cit-PAB-PNP in the solvent of choice, which should be purged with an inert gas. Mal-PEG$_1$-Val-Cit-PAB-PNP is slightly soluble (0.1-1 mg/ml) in DMSO.

Description

Mal-PEG$_1$-Val-Cit-PAB-PNP is a peptide linker molecule that has been used in the synthesis of antibody-drug conjugates (ADCs).[1,2] It contains a maleimide group that can be conjugated to an antibody and a *p*-aminobenzyl (PAB) spacer and *p*-nitrophenyl leaving group that allow it to be linked to active compounds, such as anticancer agents.[3] Mal-PEG$_1$-Val-Cit-PAB-PNP contains a PEG$_1$ spacer that improves aqueous solubility, and the Val-Cit motif is cleavable by cathepsin B for release of the active compound at the target site.

References

1. Barnett, L., Bender, S., Cho, C.S., *et al.* DC-sign antibody conjugates comprising STING agonists. *NOVARTIS AG., ADURO BIOTECH, INC.* **WO2020092617A1** (2020).
2. Zou, B. and Yeung, B.K.S. Antibody-drug conjugates comprising trabectedin and lurbinectedin derivatives. *AXCYNSIS THERAPEUTICS PTE. LTD.*, **WO2024186263A1** (2024).
3. Beck, A., Goetsch, L., Dumontet, C., *et al.* Strategies and challenges for the next generation of antibody-drug conjugates. *Nat. Rev. Drug Discov.* **16(5)**, 315-337 (2017).

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.

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