

Phosphoramidate mustard Biochemical

Phosphoramidate mustard

CATALOG #
AAA227416

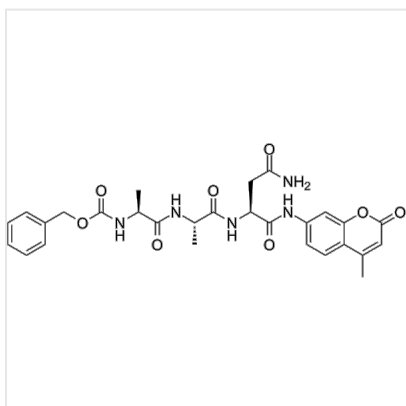
PRODUCT SYNONYMS

Phosphoramidate mustard; Cbz-Ala-Ala-Asn-AMC; Phosphoramidate mustard biochemical

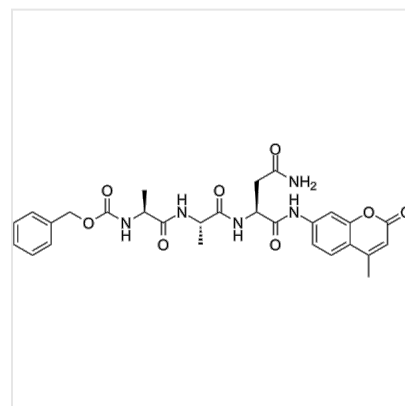
PRODUCT SPECIFICATIONS

Purity/Purification	98%
CAS	10159-53-2
Solubility	<1mg/ml refers to the product slightly soluble or insoluble
In vitro	Phosphoramidate mustard (2.1-20.7 mg/kg; i.p.; daily; for 5 days) inhibits subcutaneous tumor growth in rats[2]. Phosphoramidate mustard exhibits terminal elimination half-lives (rat 15.1 min) following intravenous administration (rat 59.4 mg/kg)[2]. Animal Model: Rat, subcutaneously implanted Walker 256 carcinosarcoma tumor[2]. Dosage: 2.1 mg/kg, 4.8mg/kg, 10.4 mg/kg, 20.7 mg/kg. Administration: intraperitoneal injection, once daily, for 5 consecutive days. Result: Required to produce 50% inhibition of subcutaneous tumor growth with dose of 12 mg/kg. Animal Model: Rats[2]. Dosage: 59.4 mg/kg (Pharmacokinetic Analysis). Administration: Intravenous injection. Result: T 1/2 (15.1 min).
Preparation and Storage	Powder: -20 degree C for 3 years In solvent: -80 degree C for 2 years

IMAGES



Structure
Z-Ala-Ala-Asn-AMC, CAS 149697-16-5



Structure
Z-Ala-Ala-Asn-AMC, CAS 149697-16-5

ADDITIONAL INFORMATION

Related Product Information for Phosphoramidate mustard biochemical

Phosphoramidate mustard is a biologically active metabolite of Cyclophosphamide (HY-17420), with anticancer activity. Phosphoramidate mustard induces DNA damage.

References

1. Stern L, Perry R, Ofek P, Many A, Shabat D, Satchi-Fainaro R. A novel antitumor prodrug platform designed to be cleaved by the endoprotease legumain. *Bioconjug Chem.* 2009;20(3):500-510.
2. James C. Powers, et al. Propenoyl hydrazides. US7482379B2.
3. Poreba M, et al. Counter Selection Substrate Library Strategy for Developing Specific Protease Substrates and Probes. *Cell Chem Biol.* 2016;23(8):1023-1035.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://www.aaabiotech.com/biochemical/phosphoramidate-mustard/227416>