



Product Information

Product ID M1746

CAS No. 148-82-3

Chemical Name 4-[Bis(2-chloroethyl)amino]-L-phenylalanine

Synonym L-PAM, L-Phenylalanine mustard, L-Sarcoclysine, Alkeran, Sarcoclorin

Formula $C_{13}H_{18}Cl_2N_2O_2$

Formula Wt. 305.20

Melting Point 180-181 °C

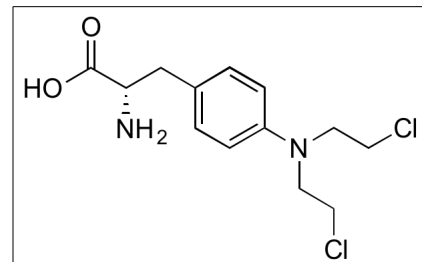
Purity ≥95%

Solubility Soluble in ethanol or propylene glycol. Practically insoluble in water. DMSO 125 mg/mL.

Store Temp 4 °C

Ship Temp Ambient

Description Melphalan is a nitrogen mustard alkylator and a derivative of mechlorethamine. Melphalan exhibits anticancer chemotherapeutic activity, attaching alkyl groups to the N7 nitrogen of guanine bases on DNA, preventing DNA and RNA synthesis.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
M1746	25 mg	\$112.60
M1746	100 mg	\$180.30
M1746	250 mg	\$338.00
M1746	1 g	\$864.00

References Polavarapu A, Stillabower JA, Stubblefield SG, et al. The mechanism of guanine alkylation by nitrogen mustards: a computational study. *J Org Chem.* 2012 Jul 20;77(14):5914-21. PMID: 22681226.

Falco P, Brinthen S, Avonto I, et al. Melphalan and its role in the management of patients with multiple myeloma. *Expert Rev Anticancer Ther.* 2007 Jul;7(7):945-57. PMID: 17627453.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.