
Product Data Sheet

Product Name: MART-1 (26-35) human

Cat. No.: GC31829

Chemical Properties

Cas. No. 156251-01-3

SMILES Glu-Ala-Ala-Gly-Ile-Gly-Ile-Leu-Thr-Val

Formula $C_{42}H_{74}N_{10}O_{14}$ M.Wt 943.1

Solubility Soluble in Water Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure **Background**

MART-1 (26-35) is amino acid residue 26 to 35 of MART-1 protein.

MART-1 (Melan-A) gene is 18 kb long and comprises five exons. It is expressed in most melanoma tumor samples, and among normal cells, only in melanocytes[1]. In cancer immunotherapy, epitopes and variants derived from the MART-1/Melan-A protein are widely used as clinical vaccines. The epitopes spanning amino acid residues 26-35 and 27-35 from the MART-1/Melan-A protein, highly expressed in melanoma cells, provide a prime example of T cell recognition of multiple peptides and the use of peptide variants designed to elicit altered immunological responses[2].

[1]. Coulie PG, et al. A new gene coding for a differentiation antigen recognized by autologous cytolytic T lymphocytes on HLA-A2 melanomas. J Exp Med. 1994 Jul 1;180(1):35-42. [2]. Borbulevych OY, et al. Structures of MART-126/27-35 Peptide/HLA-A2 complexes reveal a remarkable disconnect between antigen structural homology and T cell recognition. J Mol Biol. 2007 Oct 5;372(5):1123-36.

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

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