

## MART-1 (26-35) (human)

Cat. No.:	HY-P0138
CAS No.:	156251-01-3
Molecular Formula:	C <sub>42</sub> H <sub>74</sub> N <sub>10</sub> O <sub>14</sub>
Molecular Weight:	943.1
Sequence:	Glu-Ala-Ala-Gly-Ile-Gly-Ile-Leu-Thr-Val
Sequence Shortening:	EAAGIGILTV
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

### BIOLOGICAL ACTIVITY

Description	MART-1 (26-35) (human) is amino acid residue 26 to 35 of MART-1 protein.
In Vitro	<p>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<sup>[1]</sup>. 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<sup>[2]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

### REFERENCES

- [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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