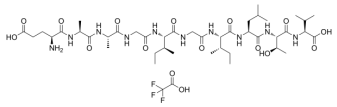
MART-1 (26-35) (human) TFA

Cat. No.: HY-P0138A

Molecular Formula: $C_{44}H_{75}F_3N_{10}O_{16}$

Molecular Weight: 1057.12

Sequence: Glu-Ala-Ala-Gly-Ile-Gly-Ile-Leu-Thr-Val



Sequence Shortening: EAAGIGILTV

Target: Others

Pathway: Others

Storage: Sealed storage, away from moisture

Powder -80°C 2 years

-20°C 1 year

* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

SOLVENT & SOLUBILITY

In Vitro

H_2O : 5 mg/mL (4.73 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	0.9460 mL	4.7298 mL	9.4597 mL
	5 mM	---	---	---
	10 mM	---	---	---

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

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

In Vitro

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] .

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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.

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