Data Sheet (Cat.No.TP2842)

TargetMol

CAP1-6D

Chemical Properties

CAS No. : 198274-43-0

Formula: C43H68N10O15

Molecular Weight: 965.07

Storage: Keep away from moisture,
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	CAP1-6D (Carcinoembryonic antigen peptide 16d) is a cytotoxic T lymphocyte (CTL) agonist peptide that enhances the immunogenicity of the CAP1 peptide and promotes T cell responses.
Targets(IC50)	Others
In vitro	Method: CEA-specific CTL lines (T-N2, T-Vac8, T-15) were established from PBMC of HLA-A2-positive healthy donors and patients immunized with a CEA vaccine. CTLs (1×10^5 cells/well) were co-cultured for 24-48 hours with T2 cells or autologous EBV-B cells (1×10^5 cells/well) pulsed with 0.00002-20 μg/mL CAP1-6D. The levels of cytokines (GM-CSF, IFN-γ, TNFα, IL-4, IL-10) in the culture supernatant were measured by ELISA. Result: CAP1-6D stimulated CEA-specific CTLs to produce GM-CSF, IFN-γ, and TNFα. At low concentrations of 0.02-0.2 μg/mL, CAP1-6D induced high levels of cytokine production: GM-CSF reached 5,000-9,000 pg/mL, IFN-γ reached 4,000-8,000 pg/mL, and TNFα was detectable at 0.2 μg/mL. CAP1-6D induced little to no production of IL-4 and IL-10 (both <3 pg/mL), and the cytokine profile induced was of the Tc1 type [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.0362 mL	5.181 mL	10.3619 mL
5 mM	0.2072 mL	1.0362 mL	2.0724 mL
10 mM	0.1036 mL	0.5181 mL	1.0362 mL
50 mM	0.0207 mL	0.1036 mL	0.2072 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Salazar E, et al. Agonist peptide from a cytotoxic t-lymphocyte epitope of human carcinoembryonic antigen stimulates production of tc1-type cytokines and increases tyrosine phosphorylation more efficiently than cognate peptide. Int J Cancer. 2000;85(6):829-838.

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