Data Sheet (Cat.No.TP1752)

GP(33-41)

Chemical Properties

CAS No.:	161928-86-5
Formula:	CTFKNVY
Molecular Weight:	226.98
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	GP(33-41), a 9-aa-long peptide, is the optimal sequence of the GP1 epitope of lymphocytic choriomeningitis virus, and can upregulate H-2Db molecules at the RMA-S (Db Kb) cell surface with a SC50 of 344 nM. GP33-41 Epitopeis a strong agonist of CD8 T cells from P14 TCR-transgenic mice.
In vitro	GP(33-41) sensitizes MC57 and T2-Db cells to lysis with ED50s of 0.9±0.6 and 2.5±0.7 nM[1]. The interaction between T cell receptors (TCR) and peptide-major histocompatibility complex (pMHC) antigens can lead to varying degrees of agonism (T cell activation), or antagonism. The P14 TCR recognises the lymphocytic choriomeningitis virus (LCMV)-derived peptide, GP(33-41) (KAVYNFATC), presents in the context of H-2D[2].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.406 mL	22.028 mL	44.057 mL
5 mM	0.881 mL	4.406 mL	8.811 mL
10 mM	0.441 mL	2.203 mL	4.406 mL
50 mM	0.088 mL	0.441 mL	0.881 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Gairin JE, et al. Optimal lymphocytic choriomeningitis virus sequences restricted by H-2Db major histocompatibility complex class I molecules and presented to cytotoxic T lymphocytes. J Virol. 1995 Apr;69(4):2297-305.

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