

OVA Peptide (257-264) TFA

Cat. No.:	HY-P1489A		
CAS No.:	1262751-08-5		
Molecular Formula:	C ₄₇ H ₇₅ F ₃ N ₁₀ O ₁₅		
Molecular Weight:	1077.15		
Sequence:	Ser-Ile-Ile-Asn-Phe-Glu-Lys-Leu		
Sequence Shortening:	SIINFEKL		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-80°C	2 years
		-20°C	1 year
	In solvent	-80°C	6 months
		-20°C	1 month

BIOLOGICAL ACTIVITY

Description	OVA Peptide (257-264) TFA is a class I (Kb)-restricted peptide epitope of OVA, an octameric peptide from ovalbumin presented by the class I MHC molecule, H-2Kb.
In Vitro	TAP1-I- and C57BL/6 macrophages may process CrI-OVA and full-length OVA in different cellular compartments and that the protein context of the OVA Peptide (257-264) epitope influences the extent of TAP-independent processing for MHC class I presentation. OVA Peptide (257-264) epitope is presented with a differential dependence on the TAP transporter depending on the protein context of the OVA epitope: OVA Peptide (257-264) contained within the MBPCrI-OVA or CrI-OVA bacterial fusion proteins is presented with little dependence on the TAP transporter, while OVA Peptide (257-264) contained within full-length ovalbumin is largely dependent on the TAP transporter, regardless of whether recombinant OVA is expressed in bacteria or the native protein is coupled to polystyrene beads [1].

PROTOCOL

Cell Assay	<p>TAP1^{-/-} or C57BL/6 macrophages are co-incubated with either bacteria or polystyrene beads containing the 257-264 epitope from ovalbumin [OVA Peptide (257-264)], which binds the mouse class I molecule Kb. The source of the OVA(257-264) epitope is either the CrI-OVA(257-264) (CrI-OVA) fusion protein, the maltose binding protein (MBP)-CrI-OVA fusion protein, native OVA or bacterial recombinant OVA (rOVA); CrI-OVA, MBP-CrI-OVA and rOVA are each expressed in bacteria, and CrI-OVA and MBP-CrI-OVA purified from bacterial lysates and native egg OVA are coated onto polystyrene beads^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>
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REFERENCES

[1]. Wick MJ, et al. Major histocompatibility complex class I presentation of ovalbumin peptide 257-264 from exogenous sources: protein context influences the degree of TAP-independent presentation. Eur J Immunol. 1996 Nov;26(11):2790-9.

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

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