

## QL9 TFA

## Chemical Properties

CAS No. :

Formula: C52H74N10O14.xC2HF3O2

Molecular Weight:

Keep away from moisture

Storage:

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	QL9 (QLSPFPFDL) TFA is an alloantigen that exhibits high affinity for the 2C T cell receptor (TCR).
In vitro	The mouse T cell clone 2C recognizes both the self MHC molecule K <sup>b</sup> and the allogeneic MHC molecule L <sup>d</sup> . Peptides SIY (SIYRYGL) and QL9 (QLSPFPFDL) serve as potent, specific agonists when bound to K <sup>b</sup> and L <sup>d</sup> , respectively. The binding of QL9 to L <sup>d</sup> is notably affected by most of its peptide side chains along its entire length. Research, particularly with the QL9-L <sup>d</sup> system, indicates that single-residue modifications designed to enhance peptide-MHC binding and vaccine efficacy could detrimentally alter T cell reactivity by concurrently affecting TCR interaction. Activation assays are utilized to assess the impact of SIY and QL9 residues on T cell function [2].

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