

## Vm24-toxin TFA

## Chemical Properties

CAS No. :

Formula:

Molecular Weight:

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	Vm24-toxin (Vaejovis mexicanus peptide 24) TFA is a peptide composed of 36 amino acids, known for effectively and selectively blocking Kv1.3 channels, exhibiting an affinity (Kd) of approximately 3 pM in lymphocytes. It demonstrates over 1500 times greater affinity for Kv1.3 compared to other tested potassium channels. The structure of Vm24-toxin TFA includes a twisted cystine-stabilized $\alpha/\beta$ motif, comprising a single-turn $\alpha$ -helix and a three-stranded antiparallel $\beta$ -sheet, stabilized by four disulfide bridges. Additionally, Vm24-toxin TFA can attenuate the response of CD4+ effector memory T cells to T-cell receptor (TCR) stimulation.
Targets(IC50)	Potassium Channel

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