

Product Data Sheet

Product Name: GP(33-41) TFA

Cat. No.: GC65488

Chemical Properties

Cas. No.

Formula C₄₈H₇₀F₃N₁₁O₁₅S

M.Wt 1130.19

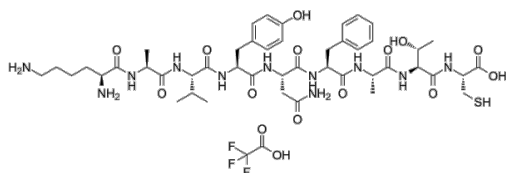
Solubility Water : 1.82 mg/mL (1.61 mM; ultrasonic and adjust pH to 4 with HCl)

Storage -20°C, away from moisture and light

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

GP(33-41) TFA, a 9-aa-long peptide, is the optimal sequence of the GP1 epitope of lymphocytic choriomeningitis virus. GP(33-41) TFA can upregulate H-2Db molecules at the RMA-S (Db Kb) cell surface with a SC50 of 344 nM[1].

GP(33-41) TFA 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

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

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(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].

[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.

[2]. Boulter JM, et al. Potent T cell agonism mediated by a very rapid TCR/pMHC interaction. Eur J Immunol. 2007 Mar;37(3):798-806.

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