

Product Data Sheet

Product Name: Cytochrome c - pigeon (88-104)

Cat. No.: GP10143

Chemical Properties

Cas. No. 86579-06-8

SMILES CCC(C)C(C(=O)NC(C)C(=O)NC(CC1=CC=C(C=C1)O)C(=O)NC(CC(C)C)C(=O)NC(CCCN)C(=O)NC(CCC(=O)N)C(=O)NC(C)C(=O)NC(C(C)O)C(=O)NC(C)C(=O)NC(CCCC N)C(=O)O)NC(=O)C(CC(C)C)NC(=O)C(CC(=O)O)NC(=O)C(C)NC(=O)C(CCCNC(=N)N)NC(=O)C(CCC(=O)O)NC(=O)C(C)NC(=O)C(CCCCN)N

Formula C₈₄H₁₄₄N₂₄O₂₅

M.Wt 1890.19

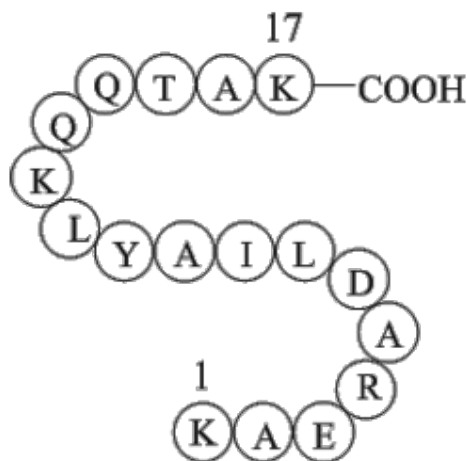
Solubility ≥189mg/mL in DMSO

Storage Store at -20°C

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

H-Lys-Ala-Glu-Arg-Ala-Asp-Leu-Ile-Ala-Tyr-Leu-Lys-Gln-Ala-Thr-Ala-Lys-OH

The I-Ek-restricted T cell response to Cytochrome c - pigeon (pcyt c) is specific for a peptide within the COOH-terminal sequence 88-1041.

The minimal length of the pcyt c peptide required for T cell stimulation is the COOH-terminal

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

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sequence containing residues 95-104. However, the addition of residues to the NH₂ terminus of residue 95 increases the antigenic potency of the peptide; the maximal response is induced by pcyt c 88-1042.

The substitution of any residue between 95 and 104 of the cytochrome c peptide changed the antigenic potency of the peptide for at least one of the hybridomas³.

References:

1. Schwartz, R. H. 1985. T lymphocyte recognition of antigen in association with gene products of the MHC. Annu. Rev. Immunol. 3:237.
2. Bhayani, H., F. R. Carbone, and Y. Paterson. 1988. The activation of pigeon cytochrome c-specific T cell hybridomas by antigenic peptides is influenced by non-native sequences at the amino terminus of the determinant. J. Immunol. 141:377.
3. Bhayani, H., Y. Paterson. 1989. Analysis of peptide binding patterns in different major histocompatibility complex/t cell receptor complexes using pigeon cytochrome c-specific t cell hybridomas.

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