

Product Data Sheet

Product Name: Influenza Hemagglutinin (HA) Peptide

Cat. No.: GP10152

Chemical Properties

Cas. No. 92000-76-5

Chemical Name Influenza Hemagglutinin (HA) Peptide

SMILES CC(C)C(C(=O)N1CCCC1C(=O)NC(CC(=O)O)C(=O)NC(CC2=CC=C(C=C2)O)C(=O)NC(C)C(=O)O)NC(=O)C(CC(=O)O)NC(=O)C(CC3=CC=C(C=C3)O)NC(=O)C4CCCN4C(=O)C(CC5=CC=C(C=C5)O)N

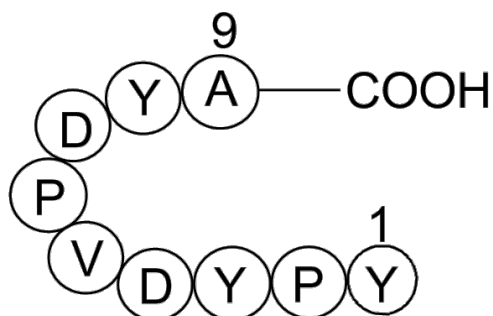
Formula $C_{53}H_{67}N_9O_{17}$ M.Wt 1102.15

Solubility $\geq 55.1075 \text{ mg/mL}$ in DMSO, $\geq 100.4 \text{ mg/mL}$ in EtOH, $\geq 46.2 \text{ mg/mL}$ in Water Storage Desiccate 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

Influenza Hemagglutinin (HA) Peptide is a synthetic peptide with the amino acid sequence Tyr-Pro-Tyr-Asp-Val-Pro-Asp-Tyr-Ala (YPYDVPDYA), derived from residues 98-106 of the HA1 subunit of the human influenza virus hemagglutinin (HA) protein^[1]. Influenza Hemagglutinin (HA) Peptide

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

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commonly used in immunoprecipitation (IP) and affinity purification experiments as a competitive elution agent. By adding it in excess, Influenza Hemagglutinin (HA) Peptide allows for the gentle elution of HA-tagged fusion proteins in their native state, avoiding the damage to protein activity caused by harsh conditions such as low pH or denaturants^[2, 3]. Influenza Hemagglutinin (HA) Peptide can also be used to isolate HA-tagged fusion proteins from monoclonal anti-HA agarose affinity columns^[4].

References:

- [1] Wagner E, Plank C, Zatloukal K, et al. Influenza virus hemagglutinin HA-2 N-terminal fusogenic peptides augment gene transfer by transferrin-polylysine-DNA complexes: toward a synthetic virus-like gene-transfer vehicle[J]. Proceedings of the National Academy of Sciences, 1992, 89(17): 7934-7938.
- [2] Zhao X, Li G, Liang S. Several affinity tags commonly used in chromatographic purification[J]. Journal of analytical methods in chemistry, 2013, 2013(1): 581093.
- [3] Shariat-Panahi A. Evaluating Chemical Crosslinking as a Tool for Enhancing DNA Damage Repair Interactome Analysis[J]. 2022.
- [4] Panwar P, Jhala D, Tamrakar A, et al. Bacterially expressed full length Hemagglutinin of Avian Influenza Virus H5N1 forms oligomers and exhibits hemagglutination[J]. Protein Expression and Purification, 2024, 223: 106541.

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