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=C(
Formula	$C_{53}H_{67}N_9O_{17}$
Solubility	≥ 55.1075mg/mL in DMSO, ≥ 100.4 mg/mL in EtOH, ≥ 46.2 mg/mL in Water
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.
Structure	Influenza Hemagglutinin (HA) Peptide

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 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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