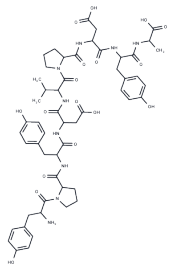
Data Sheet (Cat.No.TP1276)

TargetMol

HA Peptide

Chemical Properties



CAS No. : 92000-76-5

Formula: C53H67N9O17

Molecular Weight: 1102.15

Appearance: no data available

Storage: keep away from moisture
Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	Influenza Hemagglutinin (HA) Peptide is a tag peptide derived from an epitope of the influenza hemagglutinin protein.
Targets(IC50)	Others
In vitro	HA Peptide, derived from human influenza hemagglutinin (HA) amino acids 98-106, is a potent epitope widely utilized for isolating, purifying, detecting, and tracking proteins of interest due to its strong immunoreactivity. It is commonly employed in the separation of tagged proteins from cell culture supernatants and lysates at neutral pH, making it a valuable tool for coimmunoprecipitation and detection via western blotting. Given its small size, HA Peptide minimally impacts the biological activity and functionality of fusion partner proteins. The purification of recombinant HA-tagged proteins is facilitated by a highly specific anti-HA monoclonal antibody immobilized on resin, allowing for separation. These proteins can be eluted using a gentle method with an HA epitope at 1 mg/mL in TBS or through one of the three chemical elutions: 0.1 M glycine (pH 2-2.8), 3 M NaSCN, or 50 mM NaOH. Additionally, incorporating an N-terminal HA Peptide into mammalian expression vectors is crucial for T7 promoter-driven expression in E. coli, independent of trans-acting T7 RNAP. However, research indicates that caspase 3/7-mediated cleavage of HA Peptide abolishes its immunoreactivity, cautioning against its use in studying cell death and apoptotic mechanisms due to potential artifacts.

Solubility Information

Solubility	DMSO: 10 mM,Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.9073 mL	4.5366 mL	9.0732 mL
5 mM	0.1815 mL	0.9073 mL	1.8146 mL
10 mM	0.0907 mL	0.4537 mL	0.9073 mL
50 mM	0.0181 mL	0.0907 mL	0.1815 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Zhao X, et al. Several affinity tags commonly used in chromatographic purification. J Anal Methods Chem. 2013; 2013:581093.