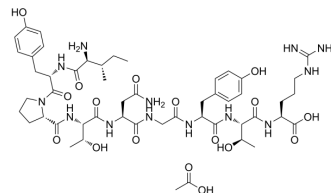


IYPTNGYTR acetate

Cat. No.:	HY-P3147A
Molecular Formula:	C ₅₁ H ₇₇ N ₁₃ O ₁₇
Molecular Weight:	1144.23
Sequence Shortening:	IYPTNGYTR
Target:	Drug Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Sealed storage, away from moisture
	Powder -80°C 2 years
	-20°C 1 year

* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

H₂O : 125 mg/mL (109.24 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	0.8740 mL	4.3698 mL	8.7395 mL
5 mM	0.1748 mL	0.8740 mL	1.7479 mL
10 mM	0.0874 mL	0.4370 mL	0.8740 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

IYPTNGYTR acetate, a deamidation-sensitive signature peptide, is a deamidation product of Trastuzumab. IYPTNGYTR acetate can be used to monitor in vivo Trastuzumab metabolism^[1].

In Vitro

IYPTNGYTR is deamidated at pH 7.5 and above, with a higher deamidation rate when the pH increases^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Bults P, et, al. LC-MS/MS-Based Monitoring of In Vivo Protein Biotransformation: Quantitative Determination of Trastuzumab and Its Deamidation Products in Human Plasma. Anal Chem. 2016 Feb 2;88(3):1871-7.

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

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