

## Tetracosactide

<b>Cat. No.:</b>	HY-P0060	
<b>CAS No.:</b>	16960-16-0	
<b>Molecular Formula:</b>	$C_{136}H_{210}N_{40}O_{31}S$	
<b>Molecular Weight:</b>	2933.44	SYSMEHFRWGKPVGKKRRPVKVYP
<b>Sequence:</b>	Ser-Tyr-Ser-Met-Glu-His-Phe-Arg-Trp-Gly-Lys-Pro-Val-Gly-Lys-Lys-Arg-Arg-Pro-Val-Lys-Val-Tyr-Pro	
<b>Sequence Shortening:</b>	SYSMEHFRWGKPVGKKRRPVKVYP	
<b>Target:</b>	Others	
<b>Pathway:</b>	Others	
<b>Storage:</b>	Sealed storage, away from moisture and light, under nitrogen	
	Powder	-80°C 2 years -20°C 1 year
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light, under nitrogen)	

### SOLVENT & SOLUBILITY

<b>In Vitro</b>	H <sub>2</sub> O : 100 mg/mL (34.09 mM); Need ultrasonic)				
		<b>Solvent</b>	<b>Mass</b>		
		<b>Concentration</b>	<b>1 mg</b>	<b>5 mg</b>	<b>10 mg</b>
	<b>Preparing Stock Solutions</b>	<b>1 mM</b>	0.3409 mL	1.7045 mL	3.4090 mL
		<b>5 mM</b>	0.0682 mL	0.3409 mL	0.6818 mL
<b>10 mM</b>		0.0341 mL	0.1704 mL	0.3409 mL	
Please refer to the solubility information to select the appropriate solvent.					
<b>In Vivo</b>	1. Add each solvent one by one: PBS Solubility: 100 mg/mL (34.09 mM); Clear solution; Need ultrasonic				

### BIOLOGICAL ACTIVITY

<b>Description</b>	Tetracosactide (Tetracosactrin) is an analogue of adrenocorticotrophic hormone (ACTH), Tetracosactide can stimulate the release of corticosteroids such as cortisol from the adrenal gland. Tetracosactide is currently used for the research of ulcerative colitis and Crohn's disease, juvenile/adult rheumatoid arthritis and osteoarthritis <sup>[1]</sup> .
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### REFERENCES

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[1]. Francesco Iuliano, et al. Adding Slow Release Tetracosactide Acetate to Eltrombopag Improves Haematological Response in ITP Patients with Platelet-Count Fluctuation. 2018 Nov 29;132(1).

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

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