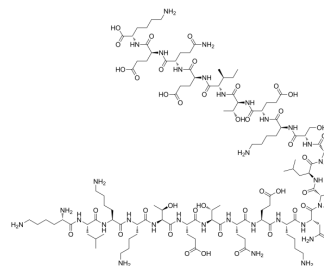


16-38-Thymosin β 4 (cattle)

Cat. No.:	HY-P3965
CAS No.:	113318-05-1
Molecular Formula:	$C_{118}H_{204}N_{32}O_{41}$
Molecular Weight:	2727.07
Sequence Shortening:	KLKKTETQEKNPSPKETIEQEK
Target:	Myosin
Pathway:	Cytoskeleton
Storage:	Sealed storage, away from moisture and light
	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)

SOLVENT & SOLUBILITY

In Vitro

H₂O : 50 mg/mL (18.33 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
	1 mM		0.3667 mL	1.8335 mL	3.6669 mL
	5 mM		0.0733 mL	0.3667 mL	0.7334 mL
	10 mM		0.0367 mL	0.1833 mL	0.3667 mL

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

BIOLOGICAL ACTIVITY

Description	16-38-Thymosin β 4 (cattle) is a Ca ²⁺ -independent MLCK activator with high affinity ^[1] .
IC₅₀ & Target	MLCK ^[1] .
In Vitro	16-38-Thymosin β 4 cattle (50 pM) results in a dramatic increase in the percent of phosphorylation of LC ₂ in the absence of exogenous CaM (calmodulin) ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Galoyan AA, et al. A hypothalamic activator of calmodulin-dependent enzymes is thymosin beta 4 (1-39). *Neurochem Res.* 1992 Aug;17(8):773-7.

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

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