



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

## β-Melanocyte Stimulating Hormone (MSH), human

<b>Cat. No.:</b>	HY-P1504	
<b>CAS No.:</b>	17908-57-5	
<b>Molecular Formula:</b>	C <sub>118</sub> H <sub>174</sub> N <sub>34</sub> O <sub>35</sub> S	
<b>Molecular Weight:</b>	2660.92	AEKKDEGPYRMEHFRWGSPPKD
<b>Sequence:</b>	Ala-Glu-Lys-Lys-Asp-Glu-Gly-Pro-Tyr-Arg-Met-Glu-His-Phe-Arg-Trp-Gly-Ser-Pro-Pro-Lys-Asp	
<b>Sequence Shortening:</b>	AEKKDEGPYRMEHFRWGSPPKD	
<b>Target:</b>	Melanocortin Receptor	
<b>Pathway:</b>	GPCR/G Protein; Neuronal Signaling	
<b>Storage:</b>	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

H<sub>2</sub>O : ≥ 100 mg/mL (37.58 mM)  
 \* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent	1 mg	5 mg	10 mg
	Concentration			
	1 mM	0.3758 mL	1.8790 mL	3.7581 mL
	5 mM	0.0752 mL	0.3758 mL	0.7516 mL
	10 mM	0.0376 mL	0.1879 mL	0.3758 mL

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

### BIOLOGICAL ACTIVITY

<b>Description</b>	β-Melanocyte Stimulating Hormone (MSH), human, a 22-residue peptide, acts as an endogenous melanocortin-4 receptor (MC4-R) agonist <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	Melanocortin-4 receptor (MC4-R) <sup>[1]</sup>
<b>In Vitro</b>	β-Melanocyte Stimulating Hormone (MSH), human (β-MSH) has high affinity at both human MC4-R transfected into CHO cells (K <sub>i</sub> =11.4±0.4 nM) and MC4-R in rat hypothalamic homogenates (K <sub>i</sub> =5.0±0.4 nM) <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

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[1]. Harrold JA, et al. beta-MSH: a functional ligand that regulated energy homeostasis via hypothalamic MC4-R? Peptides. 2003 Mar;24(3):397-405.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA