



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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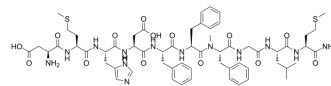
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## [MePhe7]-Neurokinin B

<b>Cat. No.:</b>	HY-P3862
<b>CAS No.:</b>	110880-53-0
<b>Molecular Formula:</b>	C <sub>60</sub> H <sub>81</sub> N <sub>13</sub> O <sub>14</sub> S <sub>2</sub>
<b>Molecular Weight:</b>	1272.49
<b>Sequence:</b>	Asp-Met-His-Asp-Phe-Phe-{MePhe}-Gly-Leu-Met-NH <sub>2</sub>
<b>Sequence Shortening:</b>	DMHDFE-{MePhe}-GLM-NH <sub>2</sub>
<b>Target:</b>	Neurokinin 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

<b>In Vitro</b>	DMSO : 20 mg/mL (15.72 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	<b>Preparing Stock Solutions</b>		1 mg	5 mg	10 mg
		1 mM	0.7859 mL	3.9293 mL	7.8586 mL
		5 mM	0.1572 mL	0.7859 mL	1.5717 mL
	10 mM	0.0786 mL	0.3929 mL	0.7859 mL	
Please refer to the solubility information to select the appropriate solvent.					
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 1.25 mg/mL (0.98 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 1.25 mg/mL (0.98 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1.25 mg/mL (0.98 mM); Clear solution				

### BIOLOGICAL ACTIVITY

<b>Description</b>	[MePhe7]-Neurokinin B is a neurokinin NK-3 receptor (NK3R) agonist with an IC <sub>50</sub> value of 3 nM. [MePhe7]-Neurokinin B is a potential regulator of pulsatile gonadotropin-releasing hormone (GnRH) secretion via activation of the neurokinin-3 receptor (NK3R) <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	NK3

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3 nM (IC<sub>50</sub>)

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## REFERENCES

[1]. Misu R, et, al. Structure-activity relationship study of tachykinin peptides for the development of novel neurokinin-3 receptor selective agonists. Bioorg Med Chem. 2013 Apr 15;21(8):2413-2417.

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

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