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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

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

www.szabo-scandic.com

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

Epobis

Cat. No.:	HY-P3585	
CAS No.:	915091-83-7	
Molecular Formula:	C ₁₀₀ H ₁₅₁ N ₂₇ O ₂₉	
Molecular Weight:	2195.44	NENITVPDTKVNIFYAWKR
Sequence Shortening:	NENITVPDTKVNIFYAWKR	
Target:	TNF Receptor	
Pathway:	Apoptosis	
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 : ≥ 50 mg/mL (22.77 mM)
 DMSO : 4 mg/mL (1.82 mM; Need ultrasonic)
 * "≥" means soluble, but saturation unknown.

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		0.4555 mL	2.2774 mL	4.5549 mL
	5 mM		0.0911 mL	0.4555 mL	0.9110 mL
	10 mM		0.0455 mL	0.2277 mL	0.4555 mL

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

BIOLOGICAL ACTIVITY

Description

Epobis, a dendrimeric peptide, is a recombinant form of erythropoietin. Epobis is a potent erythropoietin receptor agonist. Epobis promotes neuritogenesis in primary motoneurons. Epobis decrease TNF release and crosses the blood-brain barrier. Epobis has anti-inflammatory and memory enhancing properties^[1].

In Vitro

Epobis (0-8.82 μM) stimulates neurite outgrowth from motor neurons in a dose-dependent manner with maximal stimulation at 0.33 μM^[1].
 Epobis (0-8.82 μM; 24 h) reduces release of TNF and improves the survival of the L929 cells^[1].
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.
 Cell Viability Assay^[1]

Cell Line:	L929 cells
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Concentration:	0-8.82 μ M
Incubation Time:	24 hours
Result:	Had a significantly higher viability of 64% in a concentration of 8.4 μ M, whereas the highest viability (68%) in a concentration of 2.7 μ M.

In Vivo	Epobis (10 mg/kg; i.h.; Wistar rats) can cross the blood-brain barrier (BBB) ^[1] .	
	Epobis (10 mg/kg; i.h.) has an anti-inflammatory effect in mice of multiple sclerosis model ^[1] .	
	Epobis (10 mg/kg; i.h.; old (>18 month) rats and in rats experiencing early stage AD) improves social memory ^[1] .	
	MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	Wistar rats (200 g) ^[1]
	Dosage:	10 mg/kg
	Administration:	Subcutaneous injection; once
	Result:	Had detectable already 15 min after administration and remained detectable in the blood for at least 24 h.
	Animal Model:	Wistar rats with multiple sclerosis model (200 g) ^[1]
	Dosage:	10 mg/kg
	Administration:	Subcutaneous injection; once
	Result:	Had no significant effects on the weight changes or the survival of experimental autoimmune encephalomyelitis (EAE) animals.
Animal Model:	Old (>18 month) rats and in rats experiencing early stage AD ^[1]	
Dosage:	10 mg/kg	
Administration:	Subcutaneous injection; once	
Result:	Had significantly lower than that of vehicle-treated animals.	

REFERENCES

[1]. Dmytriyeva O, et, al. Epobis is a Nonerythropoietic and Neuroprotective Agonist of the Erythropoietin Receptor with Anti-Inflammatory and Memory Enhancing Effects. *Mediators Inflamm.* 2016;2016:1346390.

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

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