



# 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

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)

## Ranibizumab

Cat. No.:	HY-P9951
CAS No.:	347396-82-1
Target:	VEGFR
Pathway:	Protein Tyrosine Kinase/RTK
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

### BIOLOGICAL ACTIVITY

<b>Description</b>	Ranibizumab (RG-6321) is a humanized anti-VEGF monoclonal antibody fragment and can recognize all VEGF-A isoforms (VEGF110, VEGF121, and VEGF165) <sup>[1]</sup> . Ranibizumab slows vision loss in vivo and is used for wet age-related macular degeneration (AMD) research <sup>[1]</sup> .
<b>In Vitro</b>	Ranibizumab (RG-6321) is a humanized anti-VEGF monoclonal antibody fragment (IgG antigen-binding fragment (Fab-Y0317) <sup>[2]</sup> . Ranibizumab (0.0625-0.25 mg/ml; 72 hours) results in increased necrosis and apoptosis at in rat retinal cell cultures <sup>[3]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
<b>In Vivo</b>	Studies in monkeys demonstrates that after a single intravitreal administration, Ranibizumab can distribute rapidly to the retina (6–24 h). Ranibizumab can rapidly penetrate through the retina to reach the choroid, just 1 h after intravitreal administration in rabbits <sup>[1]</sup> . In a study comparing the pharmacokinetics of 0.5 mg of intravitreal Ranibizumab with 1.25 mg of intravitreal Bevacizumab in the rabbit, the vitreous half-life of Ranibizumab is 2.88 days, shorter than the Bevacizumab half-life of 4.32 days. Peak concentrations in the aqueous humor of the treated eye at 3 days following treatment are 37.7 µg/ml for Bevacizumab and 17.9 µg/ml for Ranibizumab, respectively <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

- [1]. Mustafa Şahiner, et al. The Effects of Anti-Vascular Endothelial Growth Factor Drugs on Retinal Pigment Epithelial Cell Culture. *Turk J Ophthalmol.* 2018 Aug;48(4):190-195.
- [2]. K J Kim, et al. The vascular endothelial growth factor proteins: identification of biologically relevant regions by neutralizing monoclonal antibodies. *Growth Factors.* 1992;7(1):53-64.
- [3]. Richard Filek, et al. Safety of anti-VEGF treatments in a diabetic rat model and retinal cell culture. *Clin Ophthalmol.* 2019 Jul 1;13:1097-1114.

---

**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