



# SZABO SCANDIC

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## Produktinformation



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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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## Plasminogen, Human plasma

Cat. No.:	HY-P2821
CAS No.:	9001-91-6
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

Plasminogen, Human plasma

### BIOLOGICAL ACTIVITY

Description	Plasminogen, Human plasma is a secreted protein that upon cleavage by urokinase plasminogen activator (uPA) or tissue plasminogen activator (tPA) is converted to plasmin, a broad range protease capable of cleaving fibrin and other ECM components. Plasminogen also is a proinflammatory regulator that accelerates the healing of acute and diabetic wounds. Plasminogen can be used in studies of wound healing, inflammation and hypoplasminogenemia <sup>[1][2]</sup> .	
In Vivo	<p>Plasminogen (plg) (2 mg/per; i.v.; single daily for 16 days) accelerates the healing of burn wounds in WT mice<sup>[1]</sup>.</p> <p>Plasminogen (plg) (2 mg/per; i.v.; single daily for 16 days) enhances the expression of IL-6 and augments the activation of STAT3 in wounded skin of both WT and plg-deficient mice<sup>[1]</sup>.</p> <p>Plasminogen (plg) (2 mg/per; i.v.; single daily for 24 days) improves the healing of burn wounds in a mouse model of diabetes<sup>[1]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>	
	Animal Model:	WT mice (plg-heterozygous (plg <sup>+/-</sup> )) mice, plg <sup>+/-</sup> and plg-deficient (plg <sup>-/-</sup> ) mice (C57BL/6 background; 8- to 10- week-old; burn-wound model) <sup>[1]</sup> .
	Dosage:	2 mg/per
	Administration:	Intravenous injection; single daily for 16 days.
	Result:	<p>Showed a significantly faster healing speed than control group at day 6, and the time to healing (ie, the scab falling off) was also approximately 2 days earlier than in the control group.</p> <p>Promoted epithelium layer fused to reepithelialize the wound completely, and only a small scab remained lightly attached above the wound when at day 11.</p> <p>Enhanced the level of IL-6 in the wounds of both WT and plg-deficient mice, and increased the pSTA T3 level in the wound.</p>
	Animal Model:	Genetically diabetic mice (C57BLKS db/db; at least 10 weeks old; with a minimal blood glucose level of 15 mM) and control heterozygous littermates (C57BLKS db/+; at least 10 weeks old; with a minimal blood glucose level of 7.8 mM) <sup>[1]</sup> .
Dosage:	2 mg/per	

Administration:	Intravenous injection; single daily for 24 days.
Result:	<p>Showed time to healing (ie, the scab falling off) was significantly earlier (approximately 3 days) than the control group.</p> <p>Accelerated the injured epithelium layer and the underlying tissue healed. (the front of the epithelium layer in the control group had barely fused and was covered by a scab. In addition, the tissue underneath the scab was inflamed).</p>

## REFERENCES

- [1]. Shen Y, et al. Plasminogen is a key proinflammatory regulator that accelerates the healing of acute and diabetic wounds. *Blood*. 2012 Jun 14;119(24):5879-87.
- [2]. Keragala CB, et al. Plasminogen: an enigmatic zymogen. *Blood*. 2021 May 27;137(21):2881-2889.

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

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