

## Abelacimab

Cat. No.:	HY-P99415
CAS No.:	2098724-83-3
Target:	Factor Xa
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

### BIOLOGICAL ACTIVITY

<b>Description</b>	Abelacimab (MAA868) is a fully human IgG1 monoclonal antibody that binds with high affinity to the catalytic structural domain of FXI and locks it in the zymogen conformation, thereby preventing its activation by FXIIa or thrombin. Abelacimab can be used in thromboembolic disease studies <sup>[1][2]</sup> .
<b>In Vitro</b>	Abelacimab (MAA868) (0.0001-1 $\mu$ M) prolongs the clotting time and reduces the amount of thrombin in human plasma in a concentration-dependent manner <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
<b>In Vivo</b>	Abelacimab (MAA868) (s.c., 3-30 mg/kg, on day 1, 85, 114) shows strong and sustained anticoagulant effects in crab-eating monkeys, significantly prolongs aPTT and has a good safety profile, with no significant toxic findings or signs of bleeding observed <sup>[1]</sup> . Abelacimab (MAA868) (i.v., 0.6 mg/kg) exhibits good anticoagulant activity to prevent carotid artery occlusion in iron chloride induced thrombosis FXI <sup>-/-</sup> C57BL/6 mice model <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Alexander W Koch, et al. MAA868, a novel FXI antibody with a unique binding mode, shows durable effects on markers of anticoagulation in humans. *Blood*. 2019 Mar 28;133(13):1507-1516.

[2]. Elena Campello, et al. Clinical Pharmacology of Factor XI Inhibitors: New Therapeutic Approaches for Prevention of Venous and Arterial Thrombotic Disorders. *J Clin Med*. 2022 Oct 26;11(21):6314.

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

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