

Thrombin (MW 37kDa)

Cat. No.:	HY-114164
CAS No.:	9002-04-4
Target:	Thrombin
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)

Thrombin

BIOLOGICAL ACTIVITY

Description	Thrombin (MW 37kDa) is a Na ⁺ -activated, allosteric serine protease that plays opposing functional roles in blood coagulation. Thrombin recognition sequence and can be used to digest GST-tagged proteins.
In Vitro	One unit of enzyme cleaves > 90% of 100 µg of a test GST-tagged protein when incubated in 1× PBS at 22°C for 16 h. Thrombin solution: Dissolve 500 units in 0.5 mL of PBS prechilled to 4°C. Swirl gently. Store solution in small aliquots at -80°C to preserve activity. Cleavage buffer: PBS (140 mM NaCl, 2.7 mM KCl, 10 mM Na ₂ HPO ₄ , 1.8 mM KH ₂ PO ₄) pH 7.3. Elution buffer: 50 mM Tris-HCl, 10 mM reduced glutathione, pH 8.0 MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Allergy. 2022 Jan 7.
- Stem Cell Res Ther. 2020 Feb 21;11(1):76.
- Front Pharmacol. 2022 Jan 10;12:792263.

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REFERENCES

- [1]. Golderman V, et al. Thrombin and the Protease-Activated Receptor-1 in Organophosphate-Induced Status Epilepticus. J Mol Neurosci. 2018 Dec 4.
- [2]. Krenzlin H, et al. The Importance of Thrombin in Cerebral Injury and Disease. Int J Mol Sci. 2016 Jan 11;17(1).

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

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