

Thrombin (MW 37kDa)

Cat. No.:	HY-114164
CAS No.:	9002-04-4
Target:	Thrombin
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

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	<p>p62 is cleaved from the agarose beads as well as the GST tag by addition of Thrombin (1 Unit/100 µg protein) at room temperature for 20 h^[3].</p> <p>Thrombin solution: Dissolve in PBS prechilled to 4°C. Swirl gently. Store solution in small aliquots at -80°C to preserve activity.</p> <p>Cleavage buffer: PBS (140 mM NaCl, 2.7 mM KCl, 10 mM Na₂HPO₄, 1.8 mM KH₂PO₄) pH 7.3.</p> <p>Elution buffer: 50 mM Tris-HCl, 10 mM reduced glutathione, pH 8.0</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

CUSTOMER VALIDATION

- Allergy. 2022 Jan 7.
- Antiviral Res. 2023 Apr 17;105606.
- Stem Cell Res Ther. 2020 Feb 21;11(1):76.
- Front Pharmacol. 2022 Jan 10;12:792263.

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REFERENCES

- [1]. Geetha T, et al. p62 serves as a shuttling factor for TrkA interaction with the proteasome. Biochem Biophys Res Commun. 2008 Sep 12;374(1):33-7.
- [2]. Golderman V, et al. Thrombin and the Protease-Activated Receptor-1 in Organophosphate-Induced Status Epilepticus. J Mol Neurosci. 2018 Dec 4.
- [3]. 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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