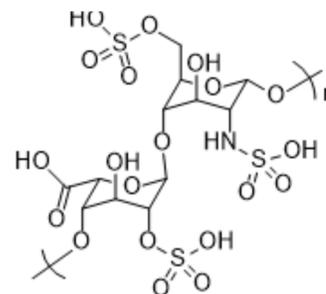


Heparin

| | |
|-----------|---|
| Cat. No.: | HY-17567 |
| CAS No.: | 9005-49-6 |
| Target: | Autophagy; Endogenous Metabolite; Thrombin; Bacterial |
| Pathway: | Autophagy; Metabolic Enzyme/Protease; Anti-infection |
| Storage: | Please store the product under the recommended conditions in the Certificate of Analysis. |



BIOLOGICAL ACTIVITY

| | |
|-------------------------------------|---|
| Description | Heparin is a highly sulfated glycosaminoglycan, that is widely used as an injectable anticoagulant, and has the highest negative charge density of any known biological molecule. Heparin significantly inhibits exosome-cell interactions. |
| IC₅₀ & Target | Human Endogenous Metabolite |
| In Vitro | Heparin (6 days) reduces the cytopathogenicity of HIV for MT-4 cells, with an IC ₅₀ of 7.5 µg/mL ^[2] . Heparin (0.5 U/mL, 48 h) inhibits HGF-induced trophoblast invasion in the SGHPL-4 cell line ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

CUSTOMER VALIDATION

- Cell Res. 2021 Mar;31(3):247-258.
- ACS Nano. 2018 Feb 27;12(2):1321-1338.
- Nat Commun. 2023 Sep 6;14(1):5444.
- Adv Sci (Weinh). 2023 Dec 10:e2306336.
- Cell Death Differ. 2021 Aug 6.

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. Ito M, et al. Inhibitory effect of dextran sulfate and heparin on the replication of human immunodeficiency virus (HIV) in vitro. *Antiviral Res.* 1987 Jul;7(6):361-7.
- [2]. Ganapathy R, et al. Effect of heparin and fractionated heparin on trophoblast invasion. *Hum Reprod.* 2007 Sep;22(9):2523-7.
- [3]. Capila I, et al. Heparin-protein interactions. *Angew Chem Int Ed Engl.* 2002 Feb 1;41(3):391-412.

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

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