

Transferrins

Cat. No.:	HY-P3267
CAS No.:	11096-37-0
Target:	Transferrin Receptor
Storage:	Sealed storage, away from moisture and light Powder -80°C 2 years -20°C 1 year * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)

Transferrins

SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 100 mg/mL (Need ultrasonic)
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BIOLOGICAL ACTIVITY

Description	Transferrin, a blood-plasma glycoprotein, is a target ligand for transferrin receptor. Transferrins can bind to and mediate the transport of iron ^{[1][2][3]} .
IC ₅₀ & Target	Transferrin receptor ^[1]
In Vitro	Transferrins (0.2, 1 and 5 μM, 30 min) enhances the enzymatic activity of thrombin ^[2] . Transferrins (0.2, 1 and 5 μM, 30 min) enhances the ability of thrombin and FXIIa to hydrolyze their natural substrates (fibrinogen) ^[2] . Transferrins can conjugate with cytochrome c, the conjugates can be uptaken by transferrin receptor overexpressing A549 cells, thereby inducing cell death ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Li H, et al. Transferrin/transferrin receptor-mediated drug delivery. Med Res Rev. 2002 May;22(3):225-50.
- [2]. Tang X, et al. Transferrin plays a central role in coagulation balance by interacting with clotting factors. Cell Res. 2020 Feb;30(2):119-132.
- [3]. Saxena M, et al. Inducing cell death in vitro in cancer cells by targeted delivery of cytochrome c via a transferrin conjugate. PLoS One. 2018 Apr 12;13(4):e0195542.

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

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