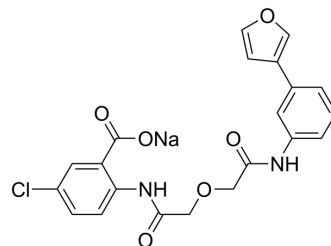


TM5441 sodium

Cat. No.:	HY-101761A
CAS No.:	2319722-53-5
Molecular Formula:	C ₂₁ H ₁₆ ClN ₂ NaO ₆
Molecular Weight:	450.8
Target:	PAI-1; Apoptosis
Pathway:	Metabolic Enzyme/Protease; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

TM5441 is an orally bioavailable inhibitor of plasminogen activator inhibitor-1 (PAI-1), has IC₅₀ values between 13.9 and 51.1 μM. TM5441 induces intrinsic apoptosis in several human cancer cell lines. TM5441 attenuates Nω-nitro-l-arginine methyl ester-induced cardiac hypertension and vascular senescence^{[1][2]}.

CUSTOMER VALIDATION

- Kidney Int. 2023 Jun 23;S0085-2538(23)00425-8.
- Sci Rep. 2023 Sep 27;13(1):16210.
- Eur J Pharm Sci. 2020 Feb 15;143:105195.
- Biol Pharm Bull. 2023 Oct 10;46(12):1753-1760.
- bioRxiv. 2023 Nov 26.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Placencio VR, et al. Small Molecule Inhibitors of Plasminogen Activator Inhibitor-1 Elicit Anti-Tumorigenic and Anti-Angiogenic Activity. PLoS One. 2015 Jul 24;10(7):e0133786.

[2]. Jeong BY, et al. Novel Plasminogen Activator Inhibitor-1 Inhibitors Prevent Diabetic Kidney Injury in a Mouse Model. PLoS One. 2016 Jun 3;11(6):e0157012.

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

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