



SZABO SCANDIC

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Produktinformation



Forschungsprodukte & Biochemikalien



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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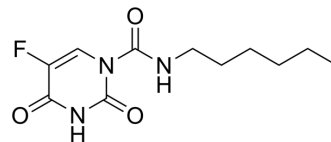
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Carmofur (Standard)

Cat. No.:	HY-B0182R
CAS No.:	61422-45-5
Molecular Formula:	C ₁₁ H ₁₆ FN ₃ O ₃
Molecular Weight:	257.26
Target:	Nucleoside Antimetabolite/Analog; SARS-CoV; Virus Protease; FAAH; Ceramidase; Glutathione Peroxidase
Pathway:	Cell Cycle/DNA Damage; Anti-infection; Metabolic Enzyme/Protease; Neuronal Signaling; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Carmofur (Standard) is the analytical standard of Carmofur. This product is intended for research and analytical applications. Carmofur (HCFU) is a rat recombinant acid ceramidase inhibitor with an IC ₅₀ of 29 nM. Carmofur is also a protease inhibitor of SARS-CoV-2 main protease (Mpro), fatty acid amide hydrolase (FAAH) and N-acylethanolamine acid amidase (NAAA). Carmofur has anti-cancer, anti-inflammatory and anti-virus activities, and can be used for the study of COVID-19 and acute lung injury (ALI) ^{[1][2][3]} .
IC ₅₀ & Target	IC ₅₀ : 29 nM (acid ceramidase) ^[1] . N-Acylethanolamine Acidase (NAAA) ^[3] .

REFERENCES

- [1]. Jin Z, et al. Structural basis for the inhibition of SARS-CoV-2 main protease by antineoplastic drug carmofur. Nat Struct Mol Biol. 2020 Jun;27(6):529-532.
- [2]. Realini N, Solorzano C, Pagliuca C, et al. Discovery of highly potent acid ceramidase inhibitors with in vitro tumor chemosensitizing activity[J]. Scientific reports, 2013, 3(1): 1035.
- [3]. Wu K, et al. A new use for an old drug: carmofur attenuates lipopolysaccharide (LPS)-induced acute lung injury via inhibition of FAAH and NAAA activities[J]. Frontiers in pharmacology, 2019, 10: 818.

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

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