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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

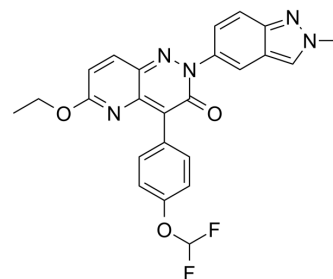
mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

MAT2A inhibitor 6

Cat. No.:	HY-159156
CAS No.:	2447686-21-5
Molecular Formula:	C ₂₄ H ₁₉ F ₂ N ₅ O ₃
Molecular Weight:	463.44
Target:	Methionine Adenosyltransferase (MAT); Apoptosis; Fluorescent Dye
Pathway:	Epigenetics; Metabolic Enzyme/Protease; Apoptosis; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	MAT2A inhibitor 6 (Compound 3N-h) is a specific MAT2A inhibitor with oral activity and yellow fluorescence (IC ₅₀ =26 nM), capable of visualizing MAT2A both in vitro and in vivo (λ _{ex} = 430 nm, λ _{em} = 585 nm). MAT2A inhibitor 6 can induce apoptosis and has anticancer activity, which can be used in cancer research ^[1] .
IC ₅₀ & Target	IC ₅₀ : 26 nM (MAT2A) ^[1] .
In Vitro	MAT2A inhibitor 6 (Compound 3N-h) (72 h) significantly inhibits the proliferation of HCT-116 (MTAP KO) cells, with an IC ₅₀ of 0.1 μM, and (1 μM; 24 h) induces apoptosis in these cells (43% of cells are in early or late apoptosis), but is almost non-toxic to wild-type HCT-116 cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	MAT2A inhibitor 6 (50 mg/kg; gavage; Once daily for 14 days) inhibits the growth of HCT-116 (MTAP KO) tumor in Balb/c mice with HCT-116 (MTAP KO) tumor and showed antitumor activity ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Wang Z, et al. Computer-aided design of a fluorescent MAT2A inhibitor for visualized cancer synthetic lethality. *Bioorg Chem.* 2024 Sep;150:107582.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA