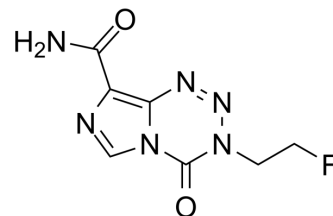


KL-50

Cat. No.:	HY-164496
CAS No.:	1161826-19-2
Molecular Formula:	C ₇ H ₇ FN ₆ O ₂
Molecular Weight:	226.17
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

KL-50 is a selective toxin toward tumors that lack the DNA repair protein O⁶-methylguanine-DNA-methyltransferase (MGMT), which reverses the formation of O⁶-alkylguanine lesions. KL-50 activates DNA damage response pathways and cycle arrest in MGMT-cells, independent of mismatch repair (MMR). KL-50 is promising for research of brain tumors that lack the DNA repair protein MGMT^{[1][2]}.

REFERENCES

[1]. Huseman ED, et al. Mechanism of Action of KL-50, a Candidate Imidazotetrazine for the Treatment of Drug-Resistant Brain Cancers. *J Am Chem Soc.* 2024 Jul 10;146(27):18241-18252.

[2]. HERZON Seth, et al. Preparation of imidazotetrazine compounds and methods for treating cancers that are MGMT deficient regardless of MMR status. WO2023049806. 2022 September 22.

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