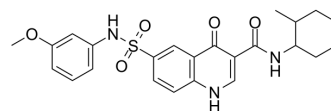


## MTH1-IN-2

Cat. No.:	HY-135967
CAS No.:	901044-91-5
Molecular Formula:	C <sub>24</sub> H <sub>27</sub> N <sub>3</sub> O <sub>5</sub> S
Molecular Weight:	469.55
Target:	DNA/RNA Synthesis
Pathway:	Cell Cycle/DNA Damage
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

Description	MTH1-IN-2 is a MutT homolog 1 (MTH1) inhibitor extracted from patent WO2016135138A1, Compound (6), MTH1-IN-2 can be used for the research of cancer. Anti-tumor activity <sup>[1]</sup> .
IC <sub>50</sub> & Target	MTH1 <sup>[1]</sup>
In Vitro	<p>The enzyme human MTH1 is a 2-hydroxy-dATP diphosphatase. MTH1 specifically assists RAS-induced tumors in preventing tumor-suppressive effects such as senescence whilst enabling maintenance and progression of the tumor. MTH1 inhibition helps impairing tumor growth by abrogating mitogenic signaling, epithelial-mesenchymal transition (EMT), a hallmark of progressing and aggressive tumors, anoikis inhibition and PI3K/Akt-mediated pro-survival signaling. MTH1 inhibitors induce oxidative DNA lesions<sup>[1]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

### REFERENCES

[1]. Kilian Huber. Oxoquinoline derivatives as mth1 inhibitors for the therapy of cancer. WO2016135138A1.

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

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