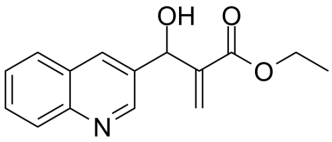
COX-2/NO-IN-1

Cat. No.:	HY-146161
Molecular Formula:	$C_{15}H_{15}NO_3$
Molecular Weight:	257.28
Target:	COX; NO Synthase
Pathway:	Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	COX-2/NO-IN-1 is an orally active nitric oxide synthase (iNOS), COX-2 expression and NO (IC_{50} of 3.52 μM) inhibitor. COX-2/NO-IN-1 has anti-inflammatory effects[1].
In Vitro	COX-2/NO-IN-1 (Compound 13b; 2.5-10 μM) exhibits potent activity through dose-dependent inhibiting the production of nitric oxide (NO, IC_{50} = 3.52 μM), TNF-α and IL-6 (84.1% and 33.6%, respectively), as well as suppressing the expression of iNOS, COX-2 and TLR4 proteins in LPS-stimulated RAW264.7 cells[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	In C57BL/6 mice with cisplatin-induced AKI, COX-2/NO-IN-1 (Compound 13b; 15-30 mg/kg; p.o.) improves kidney function, inhibits inflammatory development, and reduces pathological damage of kidney tissues[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Jiawei Zuo, et al. Design, synthesis and biological evaluation of novel arylpropionic esters for the treatment of acute kidney injury. Bioorg Chem. 2020 Dec;105:104455.

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