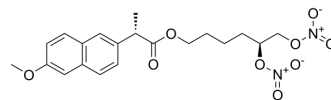


NCX 466

Cat. No.:	HY-103388
CAS No.:	1262956-64-8
Molecular Formula:	C ₂₀ H ₂₄ N ₂ O ₉
Molecular Weight:	436.41
Target:	COX; TGF-β Receptor; Glutathione Peroxidase
Pathway:	Immunology/Inflammation; TGF-beta/Smad; Apoptosis; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	<p>NCX 466 is an orally active COX-1 and COX-2 inhibitor that exhibits anti-inflammatory and analgesic effects. Additionally, NCX 466 acts as a NO donor, exerting anti-inflammatory and antioxidant effects by improving microcirculation. NCX 466 significantly reduces the levels of transforming growth factor-β (TGF-β) and oxidative stress markers (such as thiobarbituric acid reactive substances (TBARS) and 8-hydroxy-2'-deoxyguanosine (8-OHdG)), and it decreases leukocyte recruitment during inflammation by reducing myeloperoxidase (MPO) activity, thereby preventing bleomycin (HY-108345)-induced pulmonary fibrosis in mice^[1].</p>	
IC ₅₀ & Target	COX-1	COX-2

REFERENCES

[1]. Pini A, et al. Prevention of bleomycin-induced lung fibrosis in mice by a novel approach of parallel inhibition of cyclooxygenase and nitric-oxide donation using NCX 466, a prototype cyclooxygenase inhibitor and nitric-oxide donor. *J Pharmacol Exp Ther.* 2012 May;341(2):493-9.

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

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