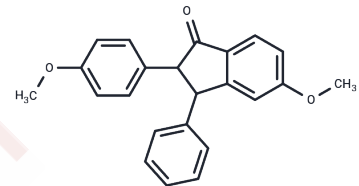


## Nitric oxide production-IN-11k

## Chemical Properties

CAS No. :	1019984-44-1
Formula:	C <sub>23</sub> H <sub>20</sub> O <sub>3</sub>
Molecular Weight:	344.403
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Nitric oxide production-IN-11k is a compound that inhibits TLR4, JNK, and NF-κB signaling pathways. It suppresses nitric oxide (NO) production in LPS-stimulated RAW264.7 cells, with an IC <sub>50</sub> of 23.2 μM. By downregulating TLR4 expression and reducing the phosphorylation level of JNK, Nitric oxide production-IN-11k inhibits the activation of NF-κB, thereby blocking the transcription of inflammation-related genes. This leads to decreased expression of iNOS and COX-2, and consequently reduces the production of inflammatory mediators such as NO, PGE <sub>2</sub> , and TNF-α, exerting anti-inflammatory effects. Nitric oxide production-IN-11k shows potential application value in the study of rheumatoid arthritis and other inflammatory diseases.
Targets(IC50)	NF-κB, JNK, TLR

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9036 mL	14.518 mL	29.036 mL
5 mM	0.5807 mL	2.9036 mL	5.8072 mL
10 mM	0.2904 mL	1.4518 mL	2.9036 mL
50 mM	0.0581 mL	0.2904 mL	0.5807 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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