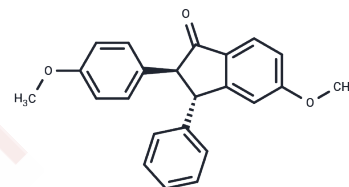


rel-(2R,3R)-Nitric oxide production-IN-11k

Chemical Properties

CAS No. :	1010705-14-2
Formula:	C ₂₃ H ₂₀ O ₃
Molecular Weight:	344.4
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	rel-(2R,3R)-Nitric oxide production-IN-11k is an isomer of Nitric oxide production-IN-11k (T206206). Nitric oxide production-IN-11k is a compound that exerts anti-inflammatory effects by inhibiting the TLR4, JNK, and NF-κB signaling pathways. Nitric oxide production-IN-11k suppresses nitric oxide (NO) production in LPS-stimulated RAW264.7 cells, with an IC ₅₀ of 23.2 μM. The mechanism of action involves downregulation of TLR4 expression, inhibition of JNK phosphorylation, and suppression of NF-κB activation, thereby reducing the expression of iNOS and COX-2 and consequently decreasing the production of inflammatory mediators such as NO, PGE ₂ , and TNF-α.
Targets(IC50)	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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Tel: 781-999-4286 E_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481