

NF- κ B-IN-15

Chemical Properties

CAS No. :

Formula: C₄₆H₅₈N₄O₈

Molecular Weight:

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

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| Description | NF- κ B-IN-15 (compound 14r) is a potent NF- κ B inhibitor. It reduces NO levels in LPS-stimulated cells and suppresses the release of IL-6, TNF- α , and IL-1 β . Additionally, it hinders LPS-induced p65 phosphorylation and I κ B α degradation. NF- κ B-IN-15 exhibits anti-inflammatory properties and holds potential for research in acute lung injury (ALI). |
| Targets(IC50) | NF- κ B |
| In vitro | NF- κ B-IN-15 (compound 14r) reduces NO levels in a dose-dependent manner and inhibits IL-6, TNF- α , and IL-1 β in LPS-induced RAW 264.7 cells when applied at concentrations of 1.25, 2.5, 5, 10, and 20 μ M for 1+24 hours. Additionally, NF- κ B-IN-15 at 10 and 20 μ M for 1+4 hours suppresses LPS-induced p65 phosphorylation and I κ B α degradation. |
| In vivo | NF- κ B-IN-15 (compound 14r) (20 mg/kg; i.p.) demonstrates anti-inflammatory effects in mice with acute lung injury (ALI). |

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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