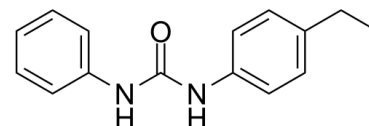


Data Sheet

Product Name:	INH14
Cat. No.:	CS-0085646
CAS No.:	200134-22-1
Molecular Formula:	C ₁₅ H ₁₆ N ₂ O
Molecular Weight:	240.30
Target:	IKK
Pathway:	NF-κB
Solubility:	DMSO : ≥ 125 mg/mL (520.18 mM)



BIOLOGICAL ACTIVITY:

INH14 is a cell permeable inhibitor of **IKKα/IKKβ**, with **IC₅₀s** of 8.97 and 3.59 μM, respectively. INH14 inhibits the IKKα/β-dependent **TLR** inflammatory response. INH14 also inhibits downstream of TAK1/TAB1 and NF-κB pathways. Anti-inflammatory and anti-cancer activity^[1]. **IC₅₀ & Target:** IC₅₀: 8.97 μM (IKKα), 3.59 μM (IKKβ)^[1] **In Vivo:** INH14 (5 μg/g, i.p. for 2 hours) reduces lipopeptide-induced inflammation in mice^[1].

References:

[1]. Drexel M, et al. INH14, a Small-Molecule Urea Derivative, Inhibits the IKKα/β-Dependent TLR Inflammatory Response. *Chembiochem*. 2019 Mar 1;20(5):710-717.

CAIndexNames:

Urea, N-(4-ethylphenyl)-N'-phenyl-

SMILES:

O=C(NC1=CC=CC=C1)NC2=CC=C(CC)C=C2

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

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