

Product Data Sheet

Product Name: INH14
Cat. No.: GC34907

Chemical Properties

Cas. No. 200134-22-1

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

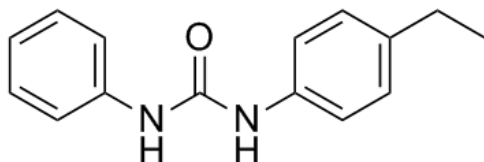
Formula $C_{15}H_{16}N_2O$ M.Wt 240.3

Solubility DMSO : ≥ 125 mg/mL (520.18 mM); Water : < 0.1 mg/mL (insoluble) Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37°C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

INH14 is a cell permeable inhibitor of $\text{IKK}\alpha/\text{IKK}\beta$, with IC_{50} s of 8.97 and 3.59 μM , respectively. INH14 inhibits the $\text{IKK}\alpha/\beta$ -dependent TLR inflammatory response. INH14 also inhibits downstream of TAK1/TAB1 and NF- κB pathways. Anti-inflammatory and anti-cancer activity[1]. $\text{IKK}\beta|3.59 \mu\text{M}$ (IC_{50})| $\text{IKK}\alpha|8.97 \mu\text{M}$ (IC_{50})

INH14 (5 $\mu\text{g/g}$, i.p. for 2 hours) reduces lipopeptide-induced inflammation in mice[1]. Animal Model:

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

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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8-week old, male, pathogen-free C57BL/6J mice[1]

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

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