

cGAS-IN-8

Chemical Properties

CAS No. :

Formula:

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

Description	cGAS-IN-8 is an indazole-based inhibitor of cyclic GMP-AMP synthase (cGAS), demonstrating an IC ₅₀ of 6 nM for human cGAS. It inhibits the production of cGAMP in THP-1 cells with an IC ₅₀ of 0.12 μM. Notably, cGAS-IN-8 does not inhibit hERG activity and is applicable in the study of autoimmune diseases.
In vitro	cGAS-IN-8 (compound 26) demonstrates favorable hERG activity, does not inhibit CYP3A4, and shows no GSH adduct formation in human liver cells.
In vivo	In mice, cGAS-IN-8 (compound 26) (0.5 mg/kg, 5 mg/kg, intravenous and oral administration) demonstrates favorable pharmacokinetic and safety profiles, exhibiting high oral bioavailability and no significant toxicity in C57Bl/6 female mice, alongside pharmacokinetic and safety assessment.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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