

Nonsteroidal aromatase inhibitor 1

Chemical Properties

CAS No. :

Formula: C₂₂H₁₆N₄O₂

Molecular Weight: 368.39

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	Nonsteroidal aromatase inhibitor 1 (Compound 13h) effectively inhibits the enzyme CYP19A1 with an IC ₅₀ value of 0.09 nM. This potent inhibitory activity suggests its potential for breast cancer research [1].
Targets(IC ₅₀)	Others,Cytochromes P450
In vitro	Treatment with nonsteroidal aromatase inhibitor 1 at concentrations ranging from 0.001 pM to 100 pM for 1 hour demonstrated significant aromatase inhibition, with an IC ₅₀ value of 0.09 nM, indicating excellent efficacy in inhibiting aromatase activity. Furthermore, at a concentration of 1 μM over 48 hours, the same treatment showed no significant effect on the growth of MCF-10A or MDA-MB-231 cells, implying minimal toxicity to normal breast tissue and limited off-target effects. This assessment was supported by both cell viability and cytotoxicity assays conducted on JEG-3, MCF-10A, and MDA-MB-231 cell lines.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7145 mL	13.5726 mL	27.1451 mL
5 mM	0.5429 mL	2.7145 mL	5.429 mL
10 mM	0.2715 mL	1.3573 mL	2.7145 mL
50 mM	0.0543 mL	0.2715 mL	0.5429 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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