# RedChemExpress

## Product Data Sheet

# Inhibitors • Screening Libraries • Proteins

N-N

### Nonsteroidal aromatase inhibitor 1

HY-150775		
$C_{22}H_{16}N_4O_2$		
368.39		
Cytochrom	e P450	
Metabolic E	Enzyme/F	rotease
Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month
	C <sub>22</sub> H <sub>16</sub> N <sub>4</sub> O <sub>2</sub> 368.39 Cytochrom Metabolic E Powder	C <sub>22</sub> H <sub>16</sub> N <sub>4</sub> O <sub>2</sub> 368.39 Cytochrome P450 Metabolic Enzyme/P Powder -20°C 4°C In solvent -80°C

### SOLVENT & SOLUBILITY

In Vitro	DMSO:≥100 mg/mL * "≥" means soluble,	(271.45 mM) but saturation unknown.			
		Solvent Mass Concentration	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.7145 mL	13.5726 mL	27.1451 mL
		5 mM	0.5429 mL	2.7145 mL	5.4290 mL
		10 mM	0.2715 mL	1.3573 mL	2.7145 mL
	Please refer to the so	lubility information to select the app	propriate solvent.		
In Vivo	Solubility: ≥ 2.5 m 2. Add each solvent o	one by one: 10% DMSO >> 40% PEG g/mL (6.79 mM); Clear solution one by one: 10% DMSO >> 90% (20 g/mL (6.79 mM); Clear solution			

BIOLOGICAL ACTIV	
BIOLOGICAL ACTIV	
Description	Nonsteroidal aromatase inhibitor 1 (Compound 13h) is a nonsteroidal aromatase (CYP19A1) inhibitor (IC <sub>50</sub> =0.09 nM). Nonsteroidal aromatase inhibitor 1 has potential for breast cancer research <sup>[1]</sup> . Nonsteroidal aromatase inhibitor 1 is a click chemistry reagent, it contains an Alkyne group and can undergo copper-catalyzed azide-alkyne cycloaddition (CuAAc) with molecules containing Azide groups.
IC <sub>50</sub> & Target	Aromatase
In Vitro	Nonsteroidal aromatase inhibitor 1 (0.001 pM-100 pM; 1 h) treatment shows excellent aromatase inhibition activity <sup>[1]</sup> . Nonsteroidal aromatase inhibitor 1 (1 μM; 48 h) treatment has no impact on MCF-10A or MDA-MB-231 growth <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Line:	JEG-3 cells
Concentration:	0.001 рМ-100 рМ
Incubation Time:	1 hour
Result:	Showed excellent aromatase inhibition with the $\rm IC_{50}$ value of 0.09 nM.
Cell Cytotoxicity Assay <sup>[1</sup>	]
Cell Line:	MCF-10A and MDA-MB-231 cells
octi Enic.	
Concentration:	1 μΜ

### REFERENCES

[1]. Ahmed G Eissa, et al. 4th generation nonsteroidal aromatase inhibitors: An iterative SAR-guided design, synthesis, and biological evaluation towards picomolar dual binding inhibitors. Eur J Med Chem. 2022 Jul 6;240:114569.

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

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA