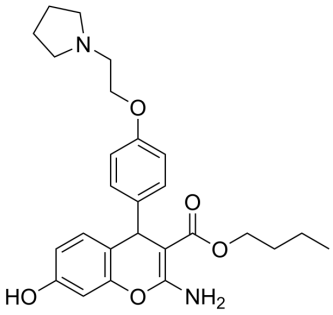
Estrogen receptor α antagonist 1

Cat. No.:	HY-150692
CAS No.:	2580941-45-1
Molecular Formula:	$C_{26}H_{32}N_2O_5$
Molecular Weight:	452.54
Target:	Estrogen Receptor/ERR
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Estrogen receptor α antagonist 1 (compound 35) is a highly selective antagonist of estrogen receptor α, with IC_{50}s of 0.02, 6.55 and 7.73 μM for estrogen receptor α, estrogen receptor β and MCF-7 cells, respectively. Estrogen receptor α antagonist 1 can be used for the research of cancer[1].
IC_{50} & Target	IC50: 0.02 μM (estrogen receptor α), 6.55 μM (estrogen receptor β), 7.73 μM (MCF-7 cells)[1]
In Vitro	Estrogen receptor α antagonist 1 (compound 35) (1 nM-100 μM; 72 h) selectively inhibits estrogen receptor α, estrogen receptor β and MCF-7 cells[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay[1]

Cell Line:	MCF-7 cells
Concentration:	1 nM-100 μM
Incubation Time:	72 hours
Result:	Exhibited IC_{50}s of 0.02, 6.55 and 7.73 μM for estrogen receptor α, estrogen receptor β and MCF-7 cells, respectively at 72 hours.

REFERENCES

[1]. Carr M, et al. Optimisation of estrogen receptor subtype-selectivity of a 4-Aryl-4H-chromene scaffold previously identified by virtual screening. Bioorg Med Chem. 2020 Mar 1;28(5):115261.

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

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