

Product Data Sheet

Product Name: DY131
Cat. No.: GC10394

Chemical Properties

Cas. No. 95167-41-2

Chemical Name N-[(E)-[4-(diethylamino)phenyl]methylideneamino]-4-hydroxybenzamide

SMILES CCN(CC)C1=CC=C(C=C1)C=NNC(=O)C2=CC=C(C=C2)O

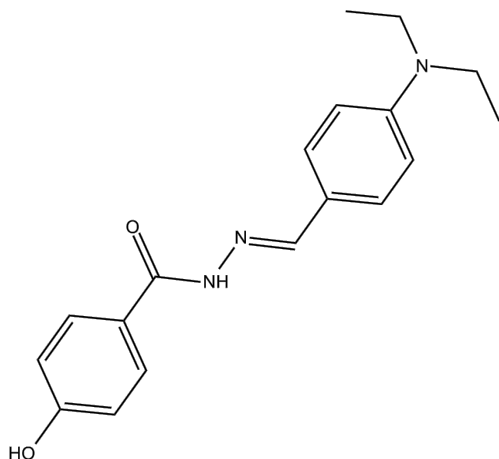
Formula $C_{18}H_{21}N_3O_2$ M.Wt 311.38

Solubility ≥ 37.1 mg/mL in DMSO, ≥ 6.91 mg/mL in EtOH with ultrasonic and warming
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

IC50: N/A

DY131 is an agonist ligand for estrogen-related receptors $\text{ERR}\beta/\gamma$. Estrogen receptor-related

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

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receptors (ERR) are orphan nuclear receptors constitutively activated without estrogen binding. ERRs may be involved in similar ER-mediated regulatory pathways and modulate estrogen responsiveness in certain target cells. The ERR subtypes, ERR β/γ , are coexpressed in normal human prostatic epithelial cells and exhibit reduced expression in many prostate cancer cell lines.

In vitro: DY131 was evaluated for its selectivity and efficacy in modulating the transcriptional activity of ERR $\alpha/\beta/\gamma$ and ER β/γ . CV-1 cells were transfected with reporter constructs or expression vectors and the fold activation of the reporter construct was determined at different concentrations of DY131. DY131 was found to be not able to activate the reporter construct or ERR α at any of the tested concentrations. In contrast, DY131 led to three- to fourfold activation of ERR β at concentrations of 10-30 μ M. Activity on ERR γ was more pronounced with five-fold activation at 3 μ M and maximal 6.6-fold activity observed at 30 μ M. Thus, DY131 was an selective ERR β/γ ligand displaying preferential selectivity for ERR γ at lower concentrations [1].

In vivo: Currently, there is no animal in vivo data available for DY131 and its analogs.

Clinical trial: So far, no clinical study has been reported for DY131 and its analogs.

Reference:

[1] Yu DD, Forman BM. Identification of an agonist ligand for estrogen-related receptors ERR β/γ . Bioorg Med Chem Lett. 2005 Mar 1;15(5):1311-3.

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