

Product Data Sheet

Product Name: NR2F1 agonist 1

Cat. No.: GC73285

Chemical Properties

Cas. No. 374101-64-1

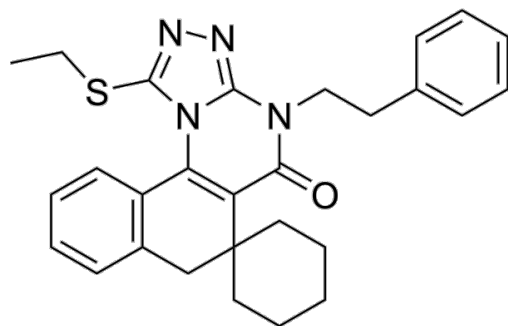
Formula $C_{28}H_{30}N_4OS$ M.Wt 470.63

Solubility DMSO : 7.5 mg/mL (15.94 mM; ultrasonic and warming and heat to 60°C) Storage 4°C, protect from light, stored under nitrogen

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

NR2F1 agonist 1, a nuclear receptor NR2F1 agonist, specifically activates dormancy programs in malignant cells. NR2F1 agonist 1 up-regulates NR2F1 and downstream target genes that regulate dormancy. NR2F1 agonist 1 induces neural crest-like and growth suppression in head and neck squamous cell carcinoma (HNSCC) via NR2F1 activation. NR2F1 agonist 1 inhibits tumor growth in a mouse primary tumor model.

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

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NR2F1 agonist 1 (compound C26) (0.5 μ M, 1 μ M; 18 h) significantly induces luciferase expression in D-HEp3 cells[1]. NR2F1 agonist 1 (0.5 μ M; 7 d) significantly down-regulates the phosphoinositide 3-kinase (PI3K) signaling pathway[1]. NR2F1 agonist 1 (0.5 μ M; 7 d) significantly up-regulates mRNA levels of SOX9, RAR β , and p27[1]. NR2F1 agonist 1 (0.5 μ M; 48 h) induces cell cycle arrest at G0/G1 in D-HEp3 cells[1].

NR2F1 agonist 1 (0.5 mg/kg/day; i.p.; 3 weeks) inhibits primary tumor growth and metastatic growth in lungs in mouse models[1].

References:

[1]. Khalil BD, et al. An NR2F1-specific agonist suppresses metastasis by inducing cancer cell dormancy. J Exp Med. 2022 Jan 3;219(1):e20210836.

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