
Product Data Sheet

Product Name: DS45500853

Cat. No.: GC64533

Chemical Properties

Cas. No. 2735803-28-6

Formula C₁₈H₂₀O₃

M.Wt 284.35

Solubility DMSO : 50 mg/mL (175.84 mM; ultrasonic and warming and heat to 60°C)

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**

DS45500853 is an estrogen-related receptor α (ERR α) agonist. DS45500853 inhibits the binding between receptor-interacting protein 140 (RIP140) corepressor peptide (10 nM) and GST-ERR α ligand-binding domain (LBD; 1.2 μ M) with an IC₅₀ value of 0.80 μ M. DS45500853 can be used for the research of metabolic disorders, including type 2 diabetes mellitus (T2DM)[1].

DS45500853 (compound 5c; 0.002, 0.006, 0.017, 0.051, 0.015, 0.046, 1.4, 4.2, 12.5 μ g/mL; 18 h) inhibits the transcriptional activity of full-length ERR α in MG63 cells with an EC₅₀ of 5.4 μ M[1].

DS45500853 binds in the ligand-binding pocket (LBP) of the ERR α LBD as inverse agonist II[1].

[1]. Shinozuka T, et al. Discovery of a Novel Class of ERR α Agonists. ACS Med Chem Lett. 2021 Apr 21;12(5):817-821.

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

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