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**Product Data Sheet**

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Product Name: GSK5182

Cat. No.: GC64453

**Chemical Properties**

Cas. No. 877387-37-6

Formula C<sub>27</sub>H<sub>31</sub>NO<sub>3</sub>

M.Wt 417.54

Solubility DMSO : 25 mg/mL (59.87 mM; ultrasonic and warming and heat to 80°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**

GSK5182, 4-hydroxytamoxifen analog, is a specific inverse agonist of estrogen-related receptor  $\gamma$  (ERR $\gamma$ ) that inhibits pro-inflammatory cytokine-induced catabolic factors.

GSK5182, a small-molecule ERR $\gamma$  inverse agonist, inhibits pro-inflammatory cytokine-induced catabolic factors in mouse articular chondrocytes.[1]

GSK5182 significantly reduces cartilage degeneration in ERR $\gamma$ -overexpressing mice administered intra-articular Ad-Esrrg.[1]

[1] Yunhui Min, et al. Pharmaceuticals (Basel). 2020 Nov 27;13(12):429.

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

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