

Product Data Sheet

Product Name: SR12418

Cat. No.: GC71019

Chemical Properties

Cas. No. 1801185-08-9

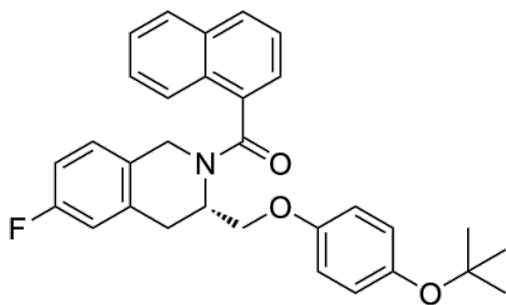
Formula $C_{31}H_{30}FNO_3$ M.Wt 483.57

Solubility DMSO : 100 mg/mL (206.80 mM); Storage -20°C
Need ultrasonic; Hygroscopic DMSO has a significant impact on the solubility of product, please use newly opened DMSO)

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

SR12418 is a REV-ERB-specific synthetic ligand with IC₅₀s of 68 nM and 119 nM for REV-ERB α and REV-ERB β , respectively. SR12418 can be used in experimental autoimmune encephalomyelitis (EAE) and colitis research.

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

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SR12418 (5 μ M; 96 h) inhibits the growth of TH17 cells [1].

SR12418 (5 and 10 μ M; 4 d) inhibits cell differentiation under TH17 polarizing conditions [1].

SR12418 (intraperitoneal injection; 50 mg/kg; twice a day) suppresses the development and severity of experimental autoimmune encephalomyelitis[1].

SR12418 (intraperitoneal injection; 50 mg/kg; twice a day; begin at day 18 post-immunization) shows effects in intervention studies of relapsing-remitting experimental autoimmune encephalomyelitis[1].

References:

[1]. Mohammed Amir, et al. REV-ERB α Regulates TH17 Cell Development and Autoimmunity. Cell Rep. 2018 Dec 26;25(13):3733-3749.e8.

[2]. Shuai Wang, et al. Targeting REV-ERB α for therapeutic purposes: promises and challenges. Theranostics. 2020 Mar 4;10(9):4168-4182.

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