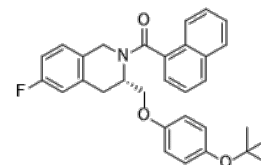


Product Name : SR12418
Cat. No. : PC-22073
CAS No. : 1801185-08-9
Molecular Formula : C₃₁H₃₀FNO₃
Molecular Weight : 483.58
Target : Rev-ErbA
Solubility : 10 mM in DMSO



CAS: 1801185-08-9

Biological Activity

SR12418 (SR-12418) is a potent, selective REV-ERB ligand/agonist with IC₅₀ of 68 nM and 119 nM for REV-ERB α and REV-ERB β , respectively, in TR-FRET biochemical assay.

SR12418 is more potent than SR9009.

SR12418 also shows minimal off-target activity in a CEREP (Eurofins Scientific) panel screen of 84 G-protein coupled receptors, ion channels, and transporters.

SR12418 dose-dependently inhibits Il17a lucif-erase activity at REV-ERB α and REV-ERB β and inhibits TH17 cell differentiation without affecting viability or other T helper populations.

SR12418 potently represses TH17-mediated gene expression and Nfil3, which is consistent with REV-ERB α acting as a repressor at RORE and/or RevRE sites.

SR12418 (i.p., 50mg/kg, b.i.d.) potently suppresses the development and severity of MOG-induced EAE model, inhibits TH17-mediated autoimmunity.

References

Amir M, et al. Cell Rep. 2018 Dec 26;25(13):3733-3749.e8.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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