



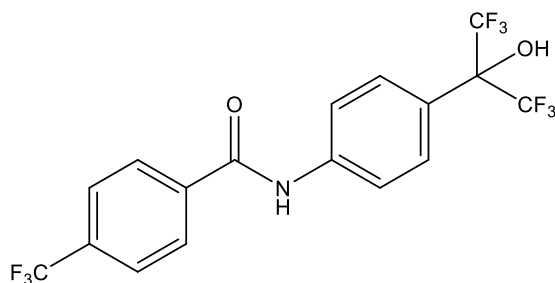
**Catalog # 10-4066**

**SR1078**

CAS# 1246525-60-9

N-[4-(1,1,1,3,3,3-Hexafluoro-2-hydroxypropan-2-yl)phenyl]-4-(trifluoromethyl)benzamide

Lot # FBA8141



SR1078 is an agonist of the orphan nuclear receptors ROR $\alpha$  and ROR $\gamma$ .<sup>1</sup> It attenuated intrapancreatic pathological changes in mouse models of chronic pancreatitis *via* restoration of the circadian stabilizing loop.<sup>2</sup> SR1078 stimulation of ROR $\alpha$  restored clock protein BMAL1 expression and oscillation and blocked MYCN-mediated neuroblastoma growth.<sup>3</sup> It reduced repetitive behavior in a mouse model of autism suggesting a potential therapeutic pathway for the disorder.<sup>4</sup> SR1078 treatment led to an increase in p53 levels and increased apoptosis in HepG2 cells.<sup>5</sup>

- 1) Wang *et al.* (2010), *Identification of SR1078, a synthetic agonist for the orphan nuclear receptors ROR $\alpha$  and ROR $\gamma$* ; ACS Chem. Biol. **5** 1029
- 2) Jiang *et al.* (2022), *The pancreatic clock is a key determinant of pancreatic fibrosis progression and exocrine dysfunction*; Sci. Transl. Med. **14** eabn3586
- 3) Moreno-Smith *et al.* (2021), *Restoration of the molecular clock is tumor suppressive in neuroblastoma*; Nat. Commun. **12** 4006
- 4) Wang *et al.* (2016), *Therapeutic Effect of a Synthetic ROR $\alpha$ / $\gamma$  Agonist in an Animal Model of Autism*; ACS Chem. Neurosci. **7** 143
- 5) Wang *et al.* (2012), *Regulation of p53 Stability and Apoptosis by an ROR Agonist*; PLoS One **7** e34921

#### **PHYSICAL DATA**

Molecular Weight:	431.26
Molecular Formula:	C <sub>17</sub> H <sub>10</sub> F <sub>9</sub> NO <sub>2</sub>
Purity:	>98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (>25 mg/mL)
Physical Description:	White solid
Storage and Stability:	Store as supplied at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

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