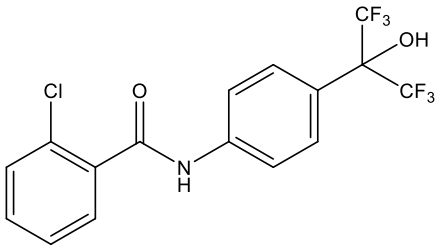
Catalog # 10-4008
SR0987

CAS# 303126-97-8

2-Chloro-*N*-[4-(1,1,1,3,3,3-hexafluoro-2-hydroxypropan-2-yl)phenyl]benzamide

Lot # FBS2008



RORγt is a T cell specific isoform of ROR that is a key transcription factor for initiating the differentiation of T_h17 and T_c17 cells. SR0987 is a RORγt agonist that drives proliferation of T_h17 cells and decreases levels of the immune checkpoint protein PD-1. In a Ga14 UAS-Luc cotransfection system, SR0987 induced reporter gene expression (EC_{50} = 800nM). Treatment of human Jurkat T cells with SR0987resulted in decreased cell surface PD-1 expression. RORγt agonists may synergize with current anti-PD-1 therapy and represent a new potential class of cancer immunotherapeutic.

1) Chang *et al.* (2016*), Synthetic RORγt Agonists Enhance Protective Immunity;* ACS Chem.Biol. **11** 1012

PHYSICAL DATA

Molecular Weight:	397.70
Molecular Formula:	$C_{16}H_{10}ClF_6NO_2$
Purity:	>98% by HPLC NMR: (Conforms)
Solubility:	DMSO (>25 mg/ml) and Ethanol (>25 mg/mL)
Physical Description:	White solid
Storage and Stability:	Store as supplied at -20ºC for up to 1 year from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 1 month.

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