

Product Data Sheet

Product Name: SR 0987

Cat. No.: GC14054

Chemical Properties

Cas. No. 303126-97-8

Chemical Name 2-chloro-N-[4-[2,2,2-trifluoro-1-hydroxy-1-(trifluoromethyl)ethyl]phenyl]-benzamide

SMILES ClC1=CC=CC=C1C(=O)NC2=CC=C(C(C(F)(F)F)(C(F)(F)F)O)C=C2

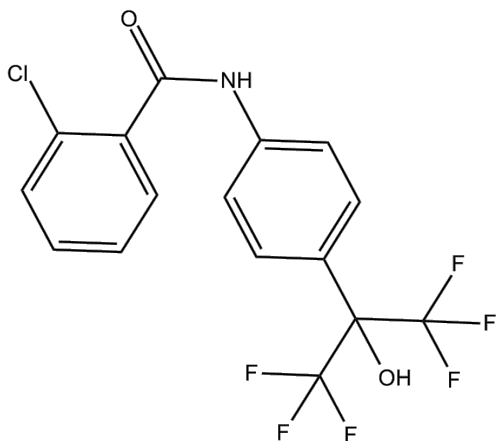
Formula $C_{16}H_{10}ClF_6NO_2$ M.Wt 397.7

Solubility $\leq 30\text{mg/ml}$ in ethanol; 15mg/ml in DMSO; 20mg/ml in dimethyl formamide 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

SR 0987 is an agonist of ROR γ t with EC₅₀ value of ~ 800 nM for inducing reporter gene expression [1].

ROR γ t (retinoic acid receptor-related orphan receptor- γ t), the T cell-specific isoform of ROR γ , is the

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key lineage-defining transcription factor to initiate the differentiation program of TH17 and Tc17 cells, cells that have demonstrated anti-tumor efficacy [1].

SR 0987 is a ROR γ t agonist. In murine EL4 T lymphocytes, SR 0987 increased expression of IL17 while repressing the expression of the checkpoint receptor PD-1, suggesting that SR 0987 enhanced protective immunity by regulating expression of IL17 and PD-1 while maintaining the cytotoxic ability of these cells. In both the 5xRORE and IL17 promoter transfected cells, SR0987 concentration dependently induced reporter gene expression with an EC50 of ~800 nM. SR0987 also concentration dependently increased interaction of ROR γ t with the SRC1-3 NR box peptide [1].

Reference:

[1]. Chang MR, Dharmarajan V, Doebelin C, et al. Synthetic ROR γ t Agonists Enhance Protective Immunity. ACS Chem Biol. 2016 Apr 15;11(4):1012-8.

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