

## SR3335, ROR $\alpha$ partial inverse agonist

Catalog	Unit
TBI4068-5MG	5 mg
TBI4068-25MG	25 mg

### Product Details

**Formal Name:** N-[4-(1,1,1,3,3,3-Hexafluoro-2-hydroxypropan-2-yl)phenyl]thiophene-2-sulfonamide

**Alternate Names:** ML176

**Molecular Formula:** C<sub>13</sub>H<sub>9</sub>F<sub>6</sub>NO<sub>3</sub>S<sub>2</sub>

**Formula Weight:** 405.30

**CAS Number:** 293753-05-6

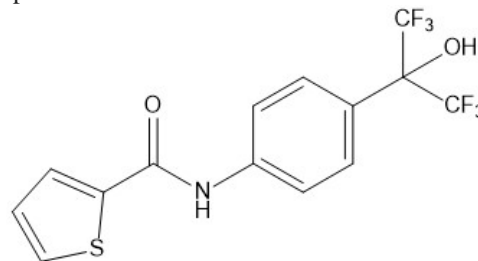
**Purity:** >98%

**Formulation:** powder

**Solubility:** Soluble in DMSO (up to at least 50 mg/ml)

**Storage:** -20°C

**Stability:**  $\geq$  2 years.



### Applications

ROR $\alpha$  partial inverse agonist

### Functions

Selective ROR $\alpha$  partial inverse agonist (IC<sub>50</sub> = 480 nM) – displays no activity at ROR $\beta$ , ROR $\gamma$ , or FXR. It was able to suppress gluconeogenesis in diet-induced obese mice. SR3335 was able to upregulate uncoupling protein 1 (UCP1), a unique mitochondrial protein devoted to thermogenesis, in wild type mice leading to decreased body weight and fat mass. It inhibited the development of mouse and human TH17 cells in vitro and in vivo leaving thymic T cells intact. SR3335's ability to block pathogenic, but not protective TH17 cell function makes it an important new tool in the study of TH17-mediated inflammatory and autoimmune diseases.

### Application Procedures

First dissolved in DMSO (up to at least 50 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 3 months.

**For research use only.**