

AM-580, Retinoid RAR α agonist

Catalog	Unit
TBI5511-5MG	5 mg
TBI5511-25MG	25 mg

Product Details

Formal Name: 4-[(5,6,7,8-Tetrahydro-5,5,8,8-tetramethyl-2-naphthalenyl)carboxamido]benzoic acid

Alternate Names: CD336; NSC 608001; Ro 40-6055

Molecular Formula: C₂₂H₂₅NO₃

Formula Weight: 351.40

CAS Number: 102121-60-8

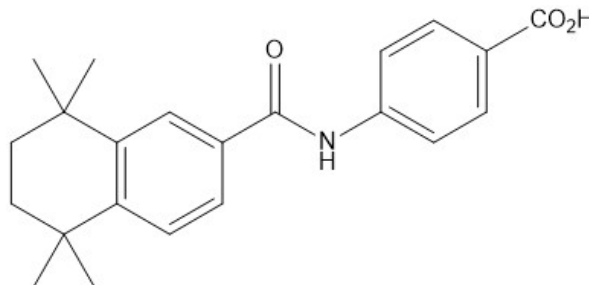
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (35 mg/ml); or Ethanol (18 mg/ml)

Storage: -20°C

Stability: \geq 2 years.



Applications

Retinoid RAR α agonist

Functions

A retinoic acid analog acting as a RAR α agonist (K_d = 8 nM). Induces or blocks differentiation depending on cell type and environment. In combination with CHIR-99021 it induces differentiation of human induced pluripotent stem cells (iPSCs) into intermediate mesoderm (80% induction rate in 5 days) capable of forming kidney structures. AM-580 exhibits anti-angiogenic activity in vivo, and induces differentiation of acute promyelocytic leukemia cells.

Application Procedures

First dissolved in DMSO (35 mg/ml); or Ethanol (18 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.