Product Data Sheet

Chemical Properties

Product Name: Adarotene

Cas No.: 496868-77-0

M.Wt: 374.47

Formula: C25H26O3

Synonyms: ST 1926; ST-1926; ST1926

Chemical Name: (E)-3-[4-[3-(1-adamantyl)-4-hydroxyphenyl]phenyl]prop-2-enoic acid

Canonical SMILES: C1C2CC3CC(C2)(C3)C4=C(C=C(C4)C5=CC=C(C=C5)C=CC(=O)O)O

Solubility: ≥37.4mg/mL in DMSO

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.

Shopping Condition: Evaluation sample solution: ship with blue ice
All other available size: ship with RT, or blue ice upon request

Biological Activity

Targets: Others

Pathways: RARs

Description:

Retinoid-related molecules are derivatives of retinoic acid and promising antileukemic agents with a mechanism of action different from that of other common chemotherapeutics. Adarotene is a novel atypical retinoid endowed with proapoptotic and antitumor activity.

In vitro: The novel atypical retinoid adarotene exhibited potent antiproliferative activity on a large panel of human tumor cells. It was found that although almost complete loss of ability to activate RARs, adarotene was performing as an effective apoptosis inducer and surprisingly produced
DNA damage, which likely contributed to its proapoptotic activity [1]. In vivo: Following oral administration, adarotene was well tolerated and caused tumor growth inhibition in the ovarian carcinoma (A2780/DX) and the human melanoma (MeWo) xenograft in nude mice, supporting the therapeutic interest of this novel agent [1]. Clinical trial: Adarotene is currently only in the preclinical development stage and no clinical data are available.

Reference:

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most ApexBio products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Short-term storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.