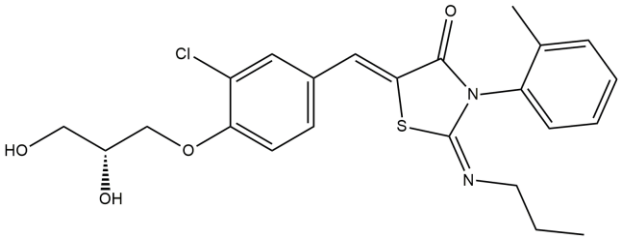
Ponesimod

03/21

ALTERNATE NAMES: ACT-128800, (5Z)-5-[[3-chloro-4-[(2R)-2,3-dihydroxypropoxy]phenyl]methylidene]-3-(2-methylphenyl)-2-propylimino-1,3-thiazolidin-4-one; (2Z,5Z)-5-(3-Chloro-4-((R)-2,3-dihydroxypropoxy)benzylidene)-2-(propylimino)-3-(o-tolyl)thiazolidin-4-one

CATALOG #:
B3121-5 5 mg
B3121-25 25 mg

STRUCTURE:



MOLECULAR FORMULA: $C_{23}H_{25}ClN_2O_4S$

MOLECULAR WEIGHT: 460.97

CAS NUMBER: 854107-55-4

APPEARANCE: Light yellow to yellow solid

PURITY: ≥ 98% (HPLC)

SOLUBILITY: ~5 mg/ml in DMSO or DMF

DESCRIPTION: Ponesimod is a potent agonist of sphingosine-1-phosphate receptor 1 (S1P1) receptor. It reduces the circulating lymphocytes at a dose of 3-100 mg/kg in a rat model. It selectively activates S1P1 in a GTPγS assay with an EC_{50} of 5.7 nM. It has been recently approved for the treatment of multiple sclerosis.

STORAGE TEMPERATURE: -20 ºC

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

REFERENCE: Bolli, M.H., Abele, S., Binkert, C., et al. 2-Imino-thiazolidin-4-one derivatives as potent, orally active S1P1 receptor agonists. J. Med. Chem. 53(10), 4198-4211 (2010).

RELATED PRODUCTS:

Siponimod (BAF-312) (Cat. No. B3037)
Tafamidis (Cat. No. B3035)
Ozanimod (Cat. No. B1196)
Thiamet G (Cat. No. B2959)
TY-52156 (Cat. No. B1582)

DISCLAIMER: ***FOR RESEARCH USE ONLY! Not to be used on humans.***