

Product Name: Ozanimod

Catalog No.: 7663

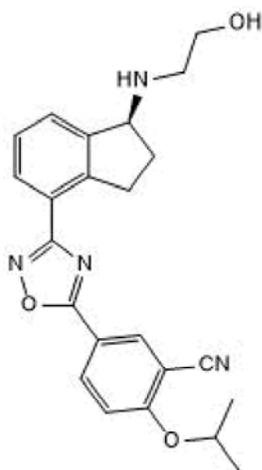
Batch No.: 1

CAS Number: 1306760-87-1

IUPAC Name: 5-[3-[(1S)-2,3-Dihydro-1-[(2-hydroxyethyl)amino]-1H-inden-4-yl]-1,2,4-oxadiazol-5-yl]-2-(1-methylethoxy)benzonitrile

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₃H₂₄N₄O₃.
Batch Molecular Weight: 404.46
Physical Appearance: Off White solid
Solubility: DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: [α]_D = -28 (Concentration = 1, Solvent = Methanol)
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	68.3	5.98	13.85
Found	68.28	6.05	13.85

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Ozanimod is a potent and selective sphingosine-1-phosphate receptor 1 (S1P₁) and 5 (S1P₅) agonist (EC₅₀ values are 0.41 and 11 nM, respectively, in a [³⁵S]-GTPγS assay). Ozanimod exhibits 27-fold selectivity over S1P₅, and >10,000-fold selectivity over S1P₂₋₄. In vitro, Ozanimod induces sustained S1P₁ receptor internalization and degradation in S1P₁ receptor-HEK293T cells. In vivo, Ozanimod reduces inflammation and disease parameters in rat models of autoimmune disease. Ozanimod reduces chronic inflammation and alleviates kidney pathology in a murine model of systemic lupus erythematosus. Ozanimod is orally bioavailable. Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

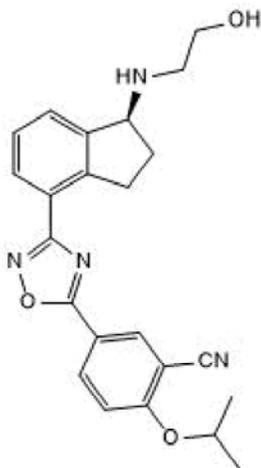
Batch Molecular Formula: C₂₃H₂₄N₄O₃.

Batch Molecular Weight: 404.46

Physical Appearance: Off White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



References:

Selkirk et al (2021) Deconstructing the pharmacological contribution of sphingosine-1 phosphate receptors to mouse models of multiple sclerosis using the species selectivity of ozanimod, a dual modulator of human sphingosine 1-phosphate receptor subtypes 1 and 5. *J.Pharmacol.Exp.Ther.* **379** 379. PMID: 34535564.

R Taylor Meadows et al (2018) Ozanimod (RPC1063), a selective S1PR1 and S1PR5 modulator, reduces chronic inflammation and alleviates kidney pathology in murine systemic lupus erythematosus. *PLoS One* **13** e0193236. PMID: 29608575.

Scott et al (2016) Ozanimod (RPC1063) is a potent sphingosine-1-phosphate receptor-1 (S1P1) and receptor-5 (S1P5) agonist with autoimmune diseasemodifying activity. *Br.J.Pharmacol.* **173** 1778. PMID: 26990079.

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