



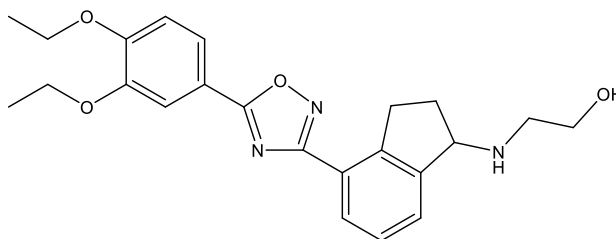
Catalog # 10-4233

CYM-5442

CAS# 1094042-01-9

2-[[4-[5-(3,4-Diethoxyphenyl)-1,2,4-oxadiazol-3-yl]-2,3-dihydro-1H-inden-1-yl]amino]ethanol

Lot # FBS5029



CYM-5442 is a potent ($EC_{50} = 1.35$ nM) and highly selective agonist of sphingosine-1-phosphate receptor 1 (S1P1).¹ It binds to a hydrophobic pocket distinct from the orthosteric sphingosine-1-phosphate binding site while still inducing and maintaining lymphopenia. CYM-5442 was active in a mouse model of multiple sclerosis.²

- 1) Gonzalez-Cabrera *et al.* (2008), *Full pharmacological efficacy of a novel S1P1 agonist that does not require S1P-like head-group interactions*; Mol. Pharmacol. **74** 1308
- 2) Gonzalez-Cabrera *et al.* (2012), *S1P(1) receptor modulation with cyclical recovery from lymphopenia ameliorates mouse model of multiple sclerosis*; Mol. Pharmacol. **81** 166

PHYSICAL DATA

Molecular Weight:	409.49
Molecular Formula:	C ₂₃ H ₂₇ N ₃ O ₄
Purity:	>98% by HPLC
	NMR: (Conforms)
Solubility:	Soluble in DMSO (2 mg/mL with warming/sonication)
Physical Description:	Beige solid
Storage and Stability:	Store as supplied, desiccated at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

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