Product Data Sheet

Product Name: ML-031
Cat. No.: GC11668

Chemical Properties

Cas. No.	852230-33-2		
Chemical Name	1-[2-[2,5-dimethyl-1-(phenylmethyl)-1H-pyrrol-3-yl]-2-oxoethyl]-2,5-pyrrolidinedione		
SMILES	CC1=CC(C(CN2C(CCC2=O)=O)=O)=C(C)N1CC3=CC=CC=C3		
Formula	$C_{19}H_{20}N_2O_3$	M.Wt	324.4
Solubility	≤5mg/ml in ethanol;5mg/ml in DMSO	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	ML-031		

Background

ML-031 is an agonist of S1P2 with EC50 value of 1 μM [1].

Sphingosine 1-phosphate (S1P) is a bioactive lysophospholipid mediator mainly released from activated platelets and implicated in many biological responses, such as cell proliferation, migration, survival, and differentiation [1]. Sphingolipids belong to a family of bioactive molecules with cell signaling properties. Sphingosine 1-phosphate (S1P) is widely expressed on various tissues and cell types. S1P is a pleiotropic lysophospholipid mediator exists in plasma and is released in large amounts from activated platelets [1]. Until now, five sphingosine-1-phosphate receptors (S1PR1-S1PR5) have been identified. S1PR4 and S1PR5 are prominently expressed in the immune and nervous systems, respectively. S1P functions by binding to five distinct G protein-coupled receptors, S1P1/EDG-1, S1P2/EDG-5, S1P3/EDG-3, S1P4/EDG-6, and S1P5/EDG-8.

ML-031 activated S1P2 with an EC50 value of 1 μM in a S1P reporter assay [1].

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Reference:
[1] Satsu H, Schaeffer M T, Guerrero M, et al. A sphingosine 1-phosphate receptor 2 selective allosteric agonist[J]. Bioorganic & medicinal chemistry, 2013, 21(17): 5373-5382.

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