Product Data Sheet

Product Name: ML-097
Cat. No.: GC12876

Chemical Properties

Cas. No.	743456-83-9		
Chemical Name	2-[(2-bromophenyl)methoxy]-benzoic acid		
SMILES	BrC1=C(COC2=C(C(O)=O)C=CC=C2)C=CC=C1		
Formula	$C_{14}H_{11}BrO_3$	M.Wt	307.1
Solubility	≤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-097		

Background

ML-097 (CID-2160985) is a pan activator of Ras-related GTPases [1].

The Ras superfamily of GTPases, which includes Arf, Rho, Ras and Rab GTPase subfamilies, regulate many cellular processes ranging from membrane trafficking to the control of cell proliferation. Alteration of small GTPase functions is a hallmark of genetic and sporadic human diseases, making GTPase family members attractive targets. The mutated forms of small GTPases may cause disease either through aberrant activation or through loss of function or diminished acitivity [1].

ML-097 is a novel pan activator of Ras-related GTPases that activating cell division cycle 42 activated mutant, cell division cycle 42, Ras activated mutant, Ras, rab7, Rac1 activated mutant and Rac1 with EC50 values of 50, 102, 93, 109, 20, 81 and 151 nM, respectively. ML-097 is a probe compound that functions by increasing the affinity of the GTPases for guanine nucleotides [1].

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

Reference:
[1]. Surviladze Z, Ursu O, Miscioscia F, et al. Three small molecule pan activator families of Ras-related GTPases. Probe Reports from the NIH Molecular Libraries Program [Internet]. Bethesda (MD): National Center for Biotechnology Information (US); 2010-2009 May 18 [updated 2010 Sep 2].

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA