

Product Data Sheet

Product Name: UCL-TRO-1938

Cat. No.: GC91100

Chemical Properties

Cas. No. 2919575-27-0

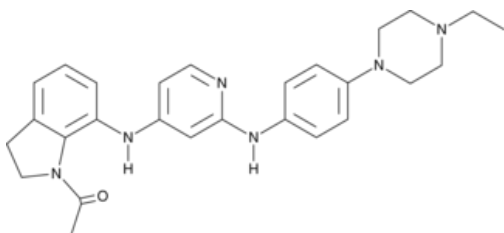
Formula $C_{27}H_{32}N_6O$ M.Wt 456.6

Solubility DMF: 1 mg/mL, DMSO: 1 mg/mL, Ethanol: Slightly Soluble, PBS (pH 7.2): Slightly soluble
Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C 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



Background

UCL-TRO-1938 is an allosteric activator of PI3K α .¹ It binds to PI3K α in a surface plasmon resonance (SPR) assay (K_D = 36 μ M) and induces PI3K α activation in a cell-free assay when used at concentrations of 25 and 50 μ M, an effect that can be reversed by the PI3K α inhibitor BYL719. UCL-TRO-1938 increases PtdIns-(3,4,5)-P₃ and phosphorylated Akt levels in mouse embryonic fibroblasts (MEFs; EC₅₀s = 5 and 2-4 μ M, respectively). *Ex vivo*, UCL-TRO-1938 increases tissue survival and decreases infarct size in perfused rat hearts. *In vivo*, UCL-TRO-1938 (10 mg/kg) reduces infarct size in a mouse model of ischemia-reperfusion injury induced by left anterior descending (LAD) coronary artery occlusion. It also increases the number of motor neurons and innervation of neuromuscular junctions in a rat model of sciatic nerve crush injury.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA