
Product Data Sheet

Product Name: AZ 1729
Cat. No.: GC50578

Chemical Properties

Cas. No. 2016864-46-1

SMILES CC1=C(C2=CC(NC(C3=CC=C(C=C3)F)=O)=CC=C2)SC(NC(N)=N)=N1

Formula C₁₈H₁₆FN₅OS M.Wt 369.42

Solubility Soluble in DMSO 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

FFA2 allosteric agonist. Inhibits forskolin-induced cAMP increase and stimulates 35SGTPγS binding in biochemical assays (pEC₅₀ values are 6.9 and 7.23, respectively). Binds at allosteric binding site. In functional assays, displays positive allosteric modulation of FFA-induced G_i signaling and negative allosteric modulation of FFA-induced G_q/G₁₁ signaling. Inhibits lipolytic effect of isoproterenol (pEC₅₀ = 5.03) and induces migration of human neutrophils in vitro.

Bolognini et al (2016) A novel allosteric activator of free fatty acid 2 receptor displays unique G_i-functional bias. J.Biol.Chem. 291 18915 PMID:27385588 |Sergeev et al (2017) A single extracellular amino acid in free fatty acid receptor 2 defines antagonist species selectivity and G protein selection bias. Sci.Rep. 7 13741 PMID:29061999

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