
Product Data Sheet

Product Name: BAY-545
Cat. No.: GC19502

Chemical Properties

Cas. No. 1699717-32-2

SMILES CCN1C(N(CCC(F)(F)F)C2=C(C(C)=C(C(N3CCC(O)CC3)=O)S2)C1=O)=O

Formula $C_{18}H_{22}F_3N_3O_4S$ M.Wt 433.45

Solubility DMSO: 150 mg/ml 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

BAY-545 is a potent and selective A2B adenosine receptor antagonist, with an IC₅₀ of 59 nM. BAY-545 also exhibits IC₅₀s of 66, 400, 280 nM for human, mouse, rat A2B adenosine receptor in cells, respectively, and a K_i of 97 nM for human A2B adenosine receptor, with more selectivity over A1, A2A, and A3 adenosine receptor[1].

IC₅₀: 59 nM (A2B adenosine receptor), 66 nM (Human A2B adenosine receptor), 400 nM (Mouse A2B adenosine receptor), 280 nM (Rat A2B adenosine receptor), 1300 nM (Human A1 adenosine receptor), 820 nM (Human A2A adenosine receptor), 470 nM (Mouse A2A adenosine receptor) and 750 nM (Rat A2A adenosine receptor)[1]
K_i: 97 nM (A2B adenosine receptor)[1]

BAY-545 is selective at A2B adenosine receptor over A1, A2A, and A3 adenosine receptor, with IC₅₀s of 1300 nM (Human A1 adenosine receptor), 820 nM (Human A2A adenosine receptor), 470 nM (Mouse A2A adenosine receptor) and 750 nM (Rat A2A adenosine receptor)[1].

Reference:

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

Product Data Sheet

[1]. Härter M, et al. Novel non-xanthine antagonist of the A2B adenosine receptor: From HTS hit to lead structure. Eur J Med Chem. 2019 Feb 1;163:763-778.

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