
Product Data Sheet

Product Name: AC 4
Cat. No.: GC50169

Chemical Properties

Cas. No. 1459809-09-6

SMILES S=C(NCCC3=CC=C(/N=N/C4=CC=C(C(F)(F)F)C=C4)C=C3)N(CCC2)CC1=C2C=C(O)C(O)=C1

Formula C26H25F3N4O2S M.Wt 514.56

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

Photoswitchable TRPV1 channel blocker (IC50 = 3.1 μM). Acts as an antagonist in trans conformation during voltage gated activation. Also acts as an antagonist in the cis formation during capsaicin-induced TRPV1 currents. Switches conformation from cis to trans at 440 nm and trans to cis at 360 nm. Allows photoswitchable antagonist and an agonist to be applied at the same time.

Stein et al (2013) Optical control of TRPV1 channels. Angew.Chem.Int.Ed.Engl. 52 9845 PMID:23873837

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

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