

Product Data Sheet

Product Name: CAY10452

Cat. No.: GC18427

Chemical Properties

Cas. No. 170569-87-6

Chemical Name 4-[5-phenyl-3-(trifluoromethyl)-1H-pyrazol-1-yl]-benzenesulfonamide

SMILES FC(F)(F)C1=NN(C2=CC=C(S(=O)(N)=O)C=C2)C(C3=CC=CC=C3)=C1

Formula $C_{16}H_{12}F_3N_3O_2S$

M.Wt 367.3

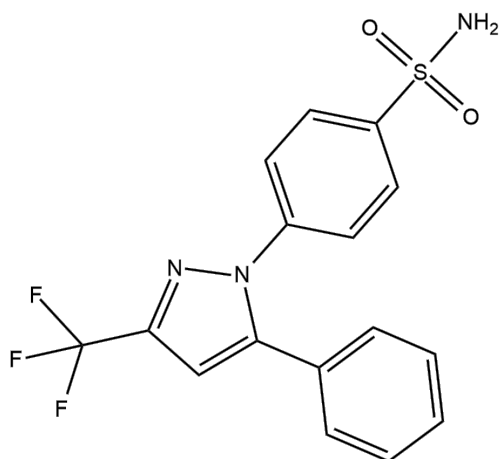
Solubility DMF: 30 mg/ml, DMSO: 30 mg/ml, Ethanol: 30 mg/ml, Ethanol:PBS (pH 7.2)(1:8): .1 mg/ml

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

Inhibitors of cyclooxygenase (COX) are generally grouped according to selectivity for COX-1 versus COX-2. However, many COX inhibitors also show an antitumor, pro-apoptotic activity that is distinct

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

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from COX inhibition - celecoxib is an example. CAY10452 is a celecoxib analog that retains potent, selective COX-2 inhibitory activity ($IC_{50} = 32 \text{ nM}$), but does not induce apoptosis in prostate cancer cell lines even at 100 uM . CAY10452 is thus a clean, selective tool for the inhibition of COX-2.

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