

## Product Data Sheet

Product Name: CAY10416

Cat. No.: GC43153

### Chemical Properties

Cas. No. 443919-96-8

SMILES COC1(CCOCC1)c1cc(OCc2cc(c3ccccc3)n(n2)c2ccc(cc2)S(=O)(=O)C)cc(F)c1

Formula C<sub>29</sub>H<sub>29</sub>FN<sub>2</sub>O<sub>5</sub>S

M.Wt 536.6

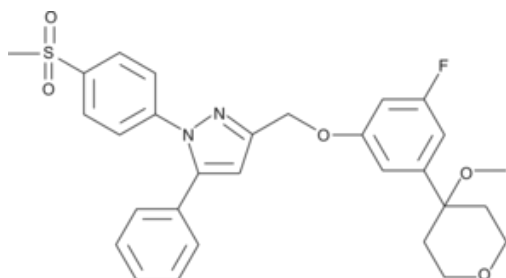
Solubility DMF: 30 mg/ml, DMSO: 30 mg/ml, Ethanol: 5 mg/ml

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

Dual cyclooxygenase-2 (COX-2)/5-lipoxygenase (5-LO) inhibitors are potential therapeutic agents for inflammatory diseases and for prostate cancer. CAY10416 is a dual COX-2/5-LO inhibitor with IC<sub>50</sub> values of 50 and 3 nM, respectively. The selectivity of CAY10416 for COX is greater than 200-fold for COX-2 versus COX-1. COX-2/5-LO inhibitors such as CAY10416 are also apoptosis-inducing agents and are potentially useful in prostate cancer chemotherapy. In the PC3 human carcinoma cell line, CAY10416 exhibits a 45% inhibition of proliferation at 100 μM. In the LNCaP human carcinoma cell line, CAY10416 inhibits growth with an IC<sub>50</sub> value of 83 μM.

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

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