

For Research Use Only

# 2,5-dimethyl Celecoxib



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Catalog Number: CM13665

## 产品信息

**Catalog Number:**  
CM13665

**CAS号:**  
457639-26-8

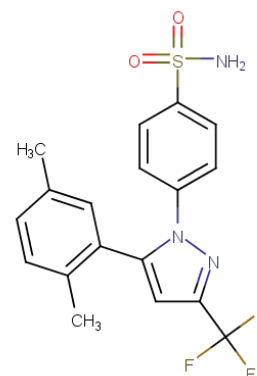
**分子式:**  
 $C_{18}H_{16}F_3N_3O_2S$

**主要靶点:**  
Prostaglandin  
Receptor|Wnt/beta-  
catenin|Apoptosis

**主要通路:**  
G蛋白偶联受体|干细胞|凋亡|免疫  
与炎症|细胞骨架

**分子量:**  
395.4

**溶解度:**  
Ethanol:3 mg/mL,DMSO:5  
mg/mL,DMF:5 mg/mL,DMSO:PBS  
(pH 7.2) (1:3):0.25 mg/mL



## 体外活性

2,5-dimethyl Celecoxib(1–100  $\mu$  M) decreased the viability of GBM cell lines in a dose-dependent manner. 2,5-dimethyl Celecoxib downregulated  $\beta$ -catenin target genes expression in A-172, T98G and U-138 MG cell lines. Apoptosis was induced, and cell cycle distribution was altered after the treatment with 2,5-dimethyl Celecoxib in T98G cell line. 2,5-dimethyl Celecoxib downregulated  $\beta$ -catenin target genes expression in patient-derived primary GBM cell lines P1 and P6[1].

## 体内活性

2,5-dimethyl Celecoxib prevented cardiac remodeling and markedly reduced urinary albumin excretion without altering blood pressure in mice. 2,5-dimethyl Celecoxib prevented podocyte injury, glomerulosclerosis, and interstitial fibrosis in the kidney of mice loaded with angiotensin II and high-salt load. 2,5-dimethyl Celecoxib reduced the phosphorylation level of Akt and activated glycogen synthase kinase-3, which led to the suppression of the Wnt/ $\beta$ -catenin signal in the heart and kidney. 2,5-dimethyl Celecoxib also reduced the expression level of snail, a key transcription factor for the epithelial-mesenchymal transition and of which gene is a target of the Wnt/ $\beta$ -catenin signal[2].

## 描述

2,5-dimethyl Celecoxib is a celecoxib derivative and a targeted inhibitor of microsomal prostaglandin E synthase-1 (mPGES-1), a key enzyme in the PGE2 synthesis pathway of inflammatory mediators.

## 储存

Powder: -20°C for 3 years | In solvent: -80°C for 2 years

For technical support and original validation data for this product please contact

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