Celecoxib (Celebrex), cyclooxygenase-2 (COX-2) inhibitor ab141988

1 References

Overview

Product name
Celecoxib (Celebrex), cyclooxygenase-2 (COX-2) inhibitor

Description

Biological description
Selective COX-2 inhibitor (IC$_{50}$ values are 15 and 0.04 μM for COX-1 and COX-2 respectively). Non-steroidal anti-inflammatory drug. Enhances tumor cell apoptosis in vivo. Orally active.

CAS Number
169590-42-5

Chemical structure

Chemical name
4-[5-(4-Methylphenyl)-3-(trifluoromethyl)pyrazol-1-yl]benzenesulfonamide

Molecular weight
381.37

Molecular formula
C$_{17}$H$_{14}$F$_3$N$_3$O$_2$S

PubChem identifier
2662

Storage instructions
Store at Room Temperature. The product can be stored for up to 12 months.

Solubility overview
Soluble in DMSO to 25 mM and in ethanol to 50 mM

Handling
Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.

Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.

SMILES
CC1=CC=C(C=C1)C2=CC(=NN2C3=C(C=C3)S(=O)(=O)N)C(F)(F)F

Source
Synthetic
Please note: All products are “FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES, NOT FOR USE IN HUMANS”

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