Product datasheet

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\textsubscript{50} values are 15 and 0.04 μM for COX-1 and COX-2 respectively). Non-steroidal anti-inflammatory drug. Enhances tumor cell apoptosis \textit{in vivo}. Orally active.

CAS Number
- 169590-42-5

Chemical structure
- ![Chemical structure of Celecoxib](image)

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

Molecular weight
- 381.37

Molecular formula
- C\textsubscript{17}H\textsubscript{14}F\textsubscript{3}N\textsubscript{3}O\textsubscript{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 \textit{frequently asked questions (FAQ) page} for more details.

SMILES
- CC1=CC=C(C=C1)C2=CC(=NN2C3=CC=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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- Replacement or refund for products not performing as stated on the datasheet
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