Celecoxib

COX-2 inhibitor

Celecoxib is a non-steroidal anti-inflammatory drug (NSAID) that selectively inhibits cyclooxygenase-2 (COX-2) with an IC_{50} of 40 nM. It is commonly used to treat pain and inflammation associated with conditions like osteoarthritis and rheumatoid arthritis. Celecoxib is known for its lower risk of gastrointestinal side effects compared to non-selective NSAIDs.

Key features and applications include:

- **Selective COX-2 Inhibition:** Targets the COX-2 enzyme specifically, reducing pain and inflammation with fewer gastrointestinal side effects compared to non-selective NSAIDs.

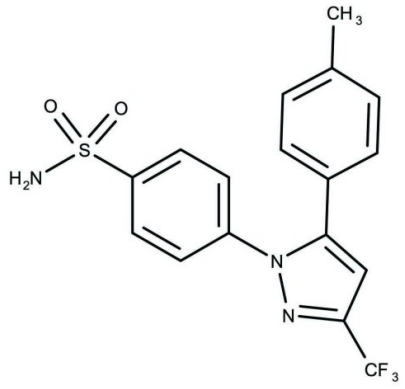
Ordering Information

Order Online »

ENZ-CHM332-0250	250mg

Manuals, SDS & CofA

View Online »


CH3
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Handling & Storage

Use/Stability	As indicated on product label or CoA when stored as recommended.
Short Term Storage	Ambient
Long Term Storage	Ambient
Shipping	Ambient Temperature

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	4-[5-(4-Methylphenyl)-3-(trifluoromethyl)-1H-pyrazol-1-yl]benzenesulfonamide, CJ-016377, CP-598107, PF-00345549, PHA-00846533, SC-58635 YM-177
Appearance	White solid.
CAS	169590-42-5
Couple Target	COX
Couple Type	Inhibitor
Formula	$C_{17}H_{14}F_3N_3O_2S$
Identity	Determined by NMR.
MW	381.38
Purity	≥98% (HPLC)
Solubility	Soluble in DMSO (up to 100 mg/mL) or in ethanol (up to 100 mg/mL).

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