

Catalog # 10-2124

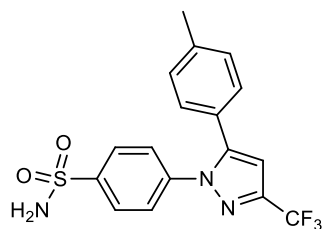
Celecoxib

169590-42-5

4-(5-(p-tolyl)-3-(trifluoromethyl)-1H-pyrazol-1-yl)benzenesulfonamide

SC-58635

Lot # X101233



Selective inhibitor of cyclooxygenase-2 (COX-2) IC₅₀ = 15 and 0.04 mM for COX-1 and COX-2 respectively¹. Potent and clinically useful antiinflammatory agent². Cancer chemopreventive agent³. May act synergistically with currently used anticancer agents⁴. Cell permeable, active *in vivo*.

- 1) Penning *et al.* (1997), *Synthesis and biological evaluation of the 1,5-diarylpyrazole class of cyclooxygenase-2 inhibitors: identification of 4-[5-(4-methylphenyl)-3-(trifluoromethyl)-1H-pyrazol-1-yl]benzenesulfonamide (SC-58635, celecoxib)*; J. Med. Chem., **40** 1347
- 2) DeWitt *et al.* (1999), *Cox-2-selective inhibitors: the new super aspirins*; Mol. Pharmacol., **55** 625
- 3) Harris *et al.* (2000), *Chemoprevention of breast cancer in rats by celecoxib, a cyclooxygenase 2 inhibitor*; Cancer Res., **60** 2101
- 4) Koki and Masferrer *et al.* (2002), *Celecoxib: a specific COX-2 inhibitor with anticancer properties*; Cancer Control, **9** 28

PHYSICAL DATA

Molecular Weight:	381.38
Molecular Formula:	C ₁₇ H ₁₄ F ₃ N ₃ O ₂ S
Purity:	99% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (up to 100 mg/ml) or Ethanol (up to 100 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied desiccated at room temperature for up to 1 year from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months.

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