

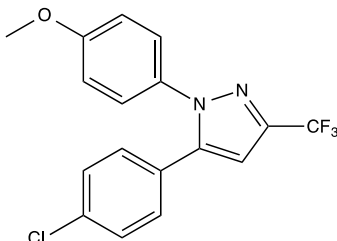
Catalog # 10-2531

SC-560

CAS# 188817-13-2

5-(4-Chlorophenyl)-1-(4-methoxyphenyl)-3-(trifluoromethyl)-1H-pyrazole

Lot # FBA2172



SC-560 is a highly selective (700-fold selective over COX-2) and potent ($IC_{50} = 9 \text{ nM}$) inhibitor of cyclooxygenase-1 (COX-1).¹ SC-560 inhibited TNF α -induced PGE₂ synthesis in neurons and, PGE₂ and thromboxane A₂ synthesis in human monocytes and platelets (IC_{50} 's = 1.8 nM and 2.5 nM respectively) indicating non-selective COX inhibition. SC-560 was able to inhibit PGE₂ synthesis in COX-1-deficient neurons indicating a COX-1 independent mechanism. This unselective COX inhibition was only observed in whole cells – it remained COX-1 specific in cell lysates.²

- 1) Smith et al. (1998), *Pharmacological analysis of cyclooxygenase-1 in inflammation*; Proc.Natl.Acad.Sci.USA **95** 13313
- 2) Brenneis et al. (2006), *Inhibition of prostaglandin E2 synthesis by SC-560 is independent of cyclooxygenase 1 inhibition*; FASEB J. **20** 1352

PHYSICAL DATA

| | |
|------------------------|---|
| Molecular Weight: | 352.74 |
| Molecular Formula: | C ₁₇ H ₁₂ ClF ₃ N ₂ O |
| Purity: | >98% |
| | NMR: (Conforms) |
| Solubility: | Soluble in DMSO (>25 mg/ml) and ethanol (10 mg/mL) |
| Physical Description: | Brown solid |
| Storage and Stability: | Store as supplied at -20° for up to 1 year from the date of purchase. Store solutions at -20°C for up to 1 month. |

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