

SC-560, Selective COX-1 inhibitor

Catalog	Unit
TBI2531-5MG	5 mg
TBI2531-25MG	25 mg

Product Details

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

Molecular Formula: C₁₇H₁₂ClF₃N₂O

Formula Weight: 352.70

CAS Number: 188817-13-2

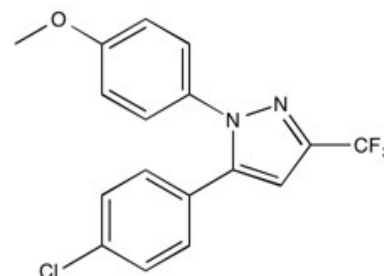
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (up to at least 25 mg/ml) or in Ethanol (up to 10 mg/ml)

Storage: -20°C

Stability: ≥ 1 year.



Applications

Selective COX-1 inhibitor

Functions

SC-560 is a highly selective (700-fold selective over COX-2) and potent (IC₅₀ = 9 nM) inhibitor of cyclooxygenase-1 (COX-1). SC-560 inhibited TNF α -induced PGE₂ synthesis in neurons and, PGE₂ and thromboxane A₂ synthesis in human monocytes and platelets (IC₅₀'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.

Application Procedures

First dissolved in DMSO (up to at least 25 mg/ml) or in Ethanol (up to 10 mg/ml), then diluted to aqueous buffer. Solutions in DMSO or ethanol may be stored at -20°C for up to 1 month.

For research use only.