PRODUCT INFORMATION

SC-236
Item No. 10004219

CAS Registry No.: 170569-86-5
Formal Name: 4-[5-(4-chlorophenyl)-3-(trifluoromethyl)-1H-pyrazol-1-yl]-benzenesulfonamide
Synonym: CID-9865808
MF: C_{16}H_{11}ClF_{3}N_{3}O_{2}S
FW: 401.8
Purity: ≥98%
UV/Vis.: \( \lambda_{\text{max}} = 254 \text{ nm} \)
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥4 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

SC-236 is supplied as a crystalline solid. A stock solution may be made by dissolving the SC-236 in the solvent of choice, which should be purged with an inert gas. SC-236 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of SC-236 in these solvents is approximately 30 mg/ml.

SC-236 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, SC-236 should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. SC-236 has a solubility of approximately 0.2 mg/ml in a 1:4 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

The physiologic roles and importance of constitutive COX-1 and inducible COX-2 have been reviewed.\(^1,2\) SC-236 is a potent, selective, orally active inhibitor of COX-2 with an IC\(_{50}\) of 10 nM and approximately 18,000-fold COX-2 selectivity.\(^3\) SC-236 has a long plasma half-life and can be dosed once daily (20 mg/kg) in rodents to achieve lasting inhibition of COX-2.\(^4\)

References