FK-3311
Item No. 17697

CAS Registry No.: 116686-15-8
Formal Name: N-[4-acetyl-2-(2,4-difluorophenoxy)phenyl]-methanesulfonamide
Synonyms: COX-2 Inhibitor V
MF: C_{15}H_{13}F_{2}NO_{4}S
FW: 341.3
Purity: ≥98%
UV/Vis.: \( \lambda_{\text{max}} \) 225, 272 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥2 years

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

Laboratory Procedures

FK-3311 is supplied as a crystalline solid. A stock solution may be made by dissolving the FK-3311 in the solvent of choice. FK-3311 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of FK-3311 in these solvents is approximately 5 mg/ml in ethanol and 30 mg/ml in DMSO and dimethyl formamide.

Description

FK3311 is a cell permeable and orally available sulfonanilide that acts as a COX-2 inhibitor and non-steroidal anti-inflammatory drug (NSAID).\(^1\)\(^2\) FK3311 inhibits LPS-induced thromboxane B\(_2\) (TxB2; Item No. 19030) production (IC\(_{50}\) = 316 nM) in vitro and inhibits adjuvant-induced arthritis (ED\(_{50}\) = 0.29 mg/kg) in rats without causing gastrointestinal irritation. FK3311 also alleviates ischemia-reperfusion injury in canine liver and rat lung in vivo.\(^3\)\(^4\)

References