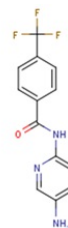


Product Name : TFAP
Synonyms : TFAP
Cat No. : M19375
CAS Number : 1011244-68-0
Molecular Formula : C₁₃H₁₀F₃N₃O
Formula Weight : 281.23
Chemical Name : N-(5-amino-2-pyridinyl)-4-(trifluoromethyl)-benzamide



Description : TFAP is a cell-permeable pyridinyl-benzamide compound that acts as a COX-1-selective inhibitor by targeting the enzyme's active site. TFAP displays analgesic properties in mice and rats in vivo without long-term cytotoxic effects. Unlike COX-2-inhibiting analgesics such as aspirin, TFAP is shown not to cause gastric damage in rats in vivo.

Pathway : Chromatin/Epigenetic

Target : COX

Receptor : COX-1

Solubility : DMSO : ≥ 155 mg/mL; 551.15 mM

SMILES : O=C(Nc1ccc(N)cn1)c2ccc(cc2)C(F)(F)F

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1.Kakuta H, et al. Identification of urine metabolites of TFAP, a cyclooxygenase-1 inhibitor. Bioorg Med Chem Lett. 2010 Mar 15;20(6):1840-3.