

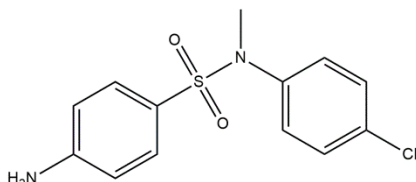
# ZXX2-77

11/19

**ALTERNATE NAMES:** 4-Amino-N-(4-chlorophenyl)-N-methyl-benzenesulfonamide; N-(4-Chlorophenyl)-N-methyl-4-aminobenzenesulfonamide; 4-Amino-4'-chloro-N-methylbenzenesulfonanilide; COX-1 Inhibitor II

**CATALOG #:** B2937-5 5 mg  
B2937-25 25 mg

**STRUCTURE:**



**MOLECULAR FORMULA:** C<sub>13</sub>H<sub>13</sub>ClN<sub>2</sub>O<sub>2</sub>S

**MOLECULAR WEIGHT:** 296.77

**CAS NUMBER:** 304913-22-2

**APPEARANCE:** Solid

**PURITY:** 97%

**SOLUBILITY:** Soluble in DMSO

**DESCRIPTION:** ZXX2-77 is a benzenesulfonanilide derivative that inhibits cyclooxygenase-1 (COX-1) with an IC<sub>50</sub> of 3.2 μM. It shows more potent analgesic activity than aspirin at 30 mg/kg by po. It can be used as a lead compound to develop better COX-1 inhibitors as analgesic agents without gastric disturbance.

**STORAGE TEMPERATURE:** -20°C. Store in the dark. Product is light sensitive. Protect from air. Store under desiccating conditions.

**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

**REFERENCE:** Zheng, X., Oda, H., Takamatsu, K., et al., Analgesic agents without gastric damage: design and synthesis of structurally simple benzenesulfonanilide-type cyclooxygenase-1-selective inhibitors. *Bioorg Med Chem.* 15(2):1014-21 (2007).

**RELATED PRODUCTS:**

DuP-697 (Cat. No. B1517)  
Nimesulide (Cat. No. 2777)  
Rofecoxib (Cat. No. B1982)  
Loganin (Cat. No. B1161)  
Ketorolac (Cat. No. B2170)

**DISCLAIMER:** ***FOR RESEARCH USE ONLY! Not to be used on humans.***