### PRODUCT: MK-0752

**ALTERNATE NAMES:** 3-[4-(4-chlorophenyl)sulfonyl-4-[(2,5-difluorophenyl)cyclohexyl]propanoic acid

**CATALOG NUMBER:** B1980-1,5

**AMOUNT:** 1 mg, 5 mg

**STRUCTURE:**

![Structure of MK-0752]

**MOLECULAR FORMULA:** C_{21}H_{21}ClF_{2}O_{4}S

**MOLECULAR WEIGHT:** 442.9

**CAS NUMBER:** 471905-41-6

**APPEARANCE:** Crystalline solid

**SOLUBILITY:** DMSO (>20 mg/ml)

**PURITY:** ≥98% by HPLC

**STORAGE:** Store at -20 °C. Protect from air and light

**DESCRIPTION:** MK-0752 is a potent and reversible inhibitor of γ-secretase, reducing the cleavage of APP to Aβ40 in human neuroblastoma SH-SY5Y cells (IC_{50} = 5 nM). Through its effects on the Notch pathway, MK-0752 reduces the number of breast cancer stem cells in tumourgrafts, enhancing the efficacy of the chemotherapy drug docetaxel (Cat. No. 2232) in mice with breast cancer tumors.


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

**RELATED PRODUCTS:**
- APP Antibody (Cat. No. 6001-100)
- Beta-Secretase, human recombinant (Cat. No. 7604-20, 100, 1000)
- Beta-Secretase Activity Assay Kit (Cat. No. K360-100)
- Beta Secretase Inhibitor I (Cat. No. 7501-1)
- Beta Secretase Inhibitor II (Cat. No. 7502-1)
- Compound E (Cat. No. 1949-250, 1000)
- Compound 34 (Cat. No. 1898-200, 1000)
- DAPT (Cat. No. 1855-5)
- EZSolution™ DAPT (Cat. No. 2663)
- MK-0752 (Cat. No. B1980-1,5)
- L-685, 258 (Cat. No. 1713-250)
- RO4929097 (Cat. No. 2011-1, 5)

**USAGE:** FOR RESEARCH USE ONLY! Not to be used in humans