

PRODUCT: MK-0752**ALTERNATE NAMES:**

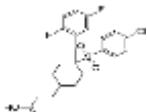
3-[4-(4-chlorophenyl)sulfonyl-4-(2,5-difluorophenyl)cyclohexyl]propanoic acid

CATALOG NUMBER:

B1980-1,5

AMOUNT:

1 mg, 5 mg

STRUCTURE:**MOLECULAR FORMULA:**

C₂₁H₂₁ClF₂O₄S

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 A β 40 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 tumorgrafts, enhancing the efficacy of the chemotherapy drug docetaxel (Cat. No. 2232) in mice with breast cancer tumors.

REFERENCES:

Cook, J.J., et al. (2010). *J. Neurosci.* **30**, 6743-6750.

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)

HANDLING:

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

USAGE:

FOR RESEARCH USE ONLY! Not to be used in humans