

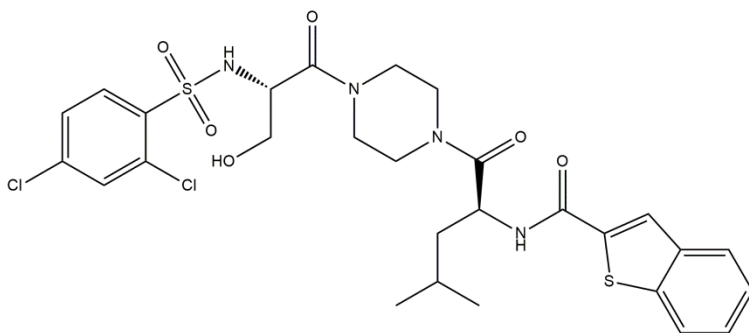
GSK 1016790A

12/19

ALTERNATE NAME: N-[(2S)-1-[4-[(2S)-2-[(2,4-dichlorophenyl)sulfonylamino]-3-hydroxypropanoyl]piperazin-1-yl]-4-methyl-1-oxopentan-2-yl]-1-benzothiophene-2-carboxamide; N-[(1S)-1-[4-[(2S)-2-[(2,4-dichlorophenyl)sulfonyl]amino]-3-hydroxy-1-oxopropyl]-1-piperazinyl]carbonyl]-3-methylbutyl]-benzo[b]thiophene-2-carboxamide; TRPV4 channel agonist; Transient Receptor Potential Vanilloid 4 Channel Agonist

CATALOG #: B2952-5 5 mg
B2952-25 25 mg

STRUCTURE:



MOLECULAR FORMULA: C₂₈H₃₂Cl₂N₄O₆S₂

MOLECULAR WEIGHT: 655.61

CAS NUMBER: 942206-85-1

APPEARANCE: Solid

PURITY: 98%

SOLUBILITY: ~10 mg/ml in DMSO

DESCRIPTION: GSK1016790A is a transient receptor potential vanilloid 4 (TRPV4) agonist that elicits calcium influx in HEK cells expressing mouse or human transient TRPV4 with EC₅₀ values of 18 and 2.1 nM, respectively. It regulates urinary bladder activity and infusion of GSK1016790A into the bladders of TRPV4^{+/+} mice induces bladder overactivity.

STORAGE TEMPERATURE: -20°C. Store in the dark. Product is light sensitive.

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

REFERENCE: Thorneloe, K.S., Sulpizio, A.C., Lin, Z., et al. N-((1S)-1-[[4-((2S)-2-[[2,4-dichlorophenyl)sulfonyl]amino]-3-hydroxypropanoyl]-1-piperazinyl]carbonyl]-3-methylbutyl)-1-benzothiophene-2-carboxamide (GSK1016790A), a novel and potent transient receptor potential vanilloid 4 channel agonist induces urinary bladder contraction and hyperactivity: Part I. *Journal of Pharmacology and Experimental Therapeutics* 326(2), 432-442 (2008).

RELATED PRODUCTS:

FURA-2 Am (Cat. No. 2243)
 EZSolution™ Ionomycin free acid (Cat. No. 2309)
 Dantrolene sodium (Cat. No. 2491)
 Ryanodine (Cat. No. 2489)
 Amlodipine besylate (Cat. No. 2378)

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