Product Name: SB-705498  
CAS No.: 501951-42-4  
Cat. No.: HY-10633  
MWT: 429.23  
Formula: C17H16BrF3N4O  
Purity : >98%  

Solubility: DMSO ≥80mg/mL; Water <1mg/mL; Ethanol ≥20mg/mL  

Mechanisms: Pathways: Membrane Transporter/Ion Channel; Target: TRPV1  
Pathways: Neuronal Signaling; Target: TRPV1  

Biological Activity:  
SB-705498 is a potent, selective and orally bioavailable transient receptor potential vanilloid 1 (TRPV1) receptor antagonist with a pIC50 of 7.1. SB-705498 potently inhibits capsaicin-induced activation of human TRPV1 expressed in 1321N1 cells or HEK293 cells with apparent pKi of 7.5 or 7.6, respectively. Coapplication of 100 nM SB-705498 rapidly, completely and reversibly inhibits hTRPV1 expressed in HEK293 cells. Compared with placebo, SB-705498 reduced the area of capsaicin-evoked flare (P=0.0047). The heat pain threshold on non-sensitized skin was elevated following SB-705498 (estimated difference from placebo [95% confidence intervals]: 1.3 degrees C [0.07,2.53], P=0.019). Following capsaicin sensitisation, the heat pain threshold and tolerance were similar between SB-705498 and placebo. However, SB-705498 increased heat pain tolerance at the site of UVB-evoked inf...

References:  
[4]. Use Of SB-705498 In The Acute Treatment Of Migraine.  
[5]. A Study to Investigate the Effect of SB-705498 on Chronic Cough. ...

Caution: Not fully tested. For research purposes only

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