

Product Name	: SB 452533
Synonyms	: —
Cat No.	: M27705
CAS Number	: 459429-39-1
Molecular Formula	: C ₁₈ H ₂₂ BrN ₃ O
Formula Weight	: 376.3
Chemical Name	: —
Description	<p>SB 452533 is an antagonist of the vanilloid receptor 1 (pK_b: 7.8). (In Vitro): SB 452533 significantly reduced Capsaicin-induced phosphorylation of AMPK and CAMKK2. (In Vivo): Small dose Cap significantly reduced bleomycin-induced pulmonary fibrosis in mice and obviously reversed alveolar epithelial cells epithelial-mesenchymal transition (EMT) (the expression of E-cadherin and ZO-1 were increased (P<0.05 or P<0.01) and the expression of α-SMA and Vimentin were decreased (P<0.05 or P<0.01) after drugs treatment for 21 day, concomitantly with the increase the expressions of TRPV1 and CGRP (P<0.05 or P<0.01), and inhibiting ERK1/2 phosphorylation and eIF3a expression (P<0.05 or P<0.01). These effects of small dose Cap were abolished in the presence of TRPV1 receptor antagonist SB 452533.</p>
Pathway	: Membrane Transporter/Ion Channel
Target	: TRP/TRPV Channel
Receptor	: NF-κB; p65
Solubility	: —
SMILES	: <chem>CCN(CCNC(=O)Nc1ccccc1Br)c1ccccc1C)c1</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. A new xanthone from the pericarp of *Garcinia mangostana*. Nat Prod Commun. 2013 Dec;8(12):1733-4.