

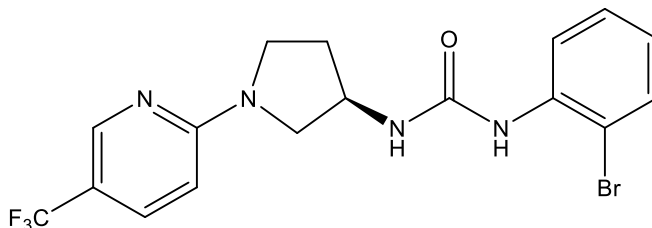
Catalog # 10-3985

SB-705498

CAS# 501951-42-4

1-(2-Bromophenyl)-3-[(3R)-1-[5-(trifluoromethyl)pyridine-2-yl]pyrrolidine-3-yl]urea

Lot # FBS2157



SB-705498 (501951-42-4) is a potent and selective antagonist of the TRPV1 receptor (IC₅₀'s for receptor induction method: Capsaicin = 3 nM; Acid (pH5.3) = pIC₅₀ 7.1, and Heat = 6 nM) with activity in human, rat, and guinea pig receptors.^{1,2} SB-705498s activity is voltage dependent and shows >100 fold selectivity over the closely related TRPM8 receptor.²

- 1) Rami *et al.* (2006), *Discovery of SB-705498: a potent and orally bioavailable TRPV1 antagonist suitable for clinical development*; *Bioorg. Med. Chem. Lett.*, **16** 3287
- 2) Gunthorpe *et al.* (2007), *Characterization of SB-705498, a Potent and Selective Vanilloid Receptor-1 (VR1/TRPV1) Antagonist That Inhibits the Capsaicin-, Acid-, and Heat-Mediated Activation of the Receptor*; *J. Pharmacol. Exp. Ther.*, **321** 1183

PHYSICAL DATA

Molecular Weight:	429.24
Molecular Formula:	C ₁₇ H ₁₆ BrF ₃ N ₄ O
Purity:	>98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (>25 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied at -20°C for up to 1 year from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

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