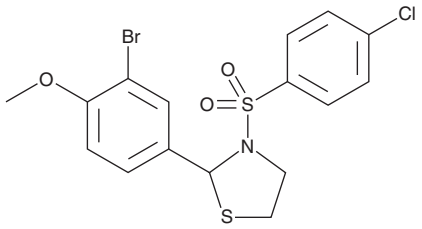
PRODUCT INFORMATION

BMS 986122

Item No. 23269

CAS Registry No.:	313669-88-4
Formal Name:	2-(3-bromo-4-methoxyphenyl)-3-[(4-chlorophenyl)sulfonyl]-thiazolidine
MF:	$C_{16}H_{15}BrClNO_3S_2$
FW:	448.8
Purity:	≥98%
UV/Vis.:	λ_{max}: 234 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

BMS 986122 is supplied as a crystalline solid. A stock solution may be made by dissolving the BMS 986122 in the solvent of choice, which should be purged with an inert gas. BMS 986122 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of BMS 986122 in ethanol is approximately 2 mg/ml and approximately 10 mg/ml in DMSO and DMF.

BMS 986122 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, BMS 986122 should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. BMS 986122 has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

BMS 986122 is a positive allosteric modulator of μ-opioid receptors that increases β-arrestin recruitment stimulated by endomorphin 1 (Item No. 23280) in U2OS-OPRM1 human osteosarcoma cells expressing μ-opioid receptors (EC_{50} = 3 μM).[1] It potentiates endomorphin 1-induced inhibition of forskolin-stimulated adenylyl cyclase activity in CHO cells expressing human recombinant μ-opioid receptors (EC_{50} = 8.9 μM). BMS 986122 also enhances [^{35}S]GTPγ binding stimulated by the μ-opioid agonist DAMGO (Item No. 21553) by 7- and 4.5-fold in C6μ glioma cell membranes that express μ-opioid receptors and mouse brain membranes, respectively.

Reference

1. Burford, N.T., Clark, M.J., Wehrman, T.S., *et al.* Discovery of positive allosteric modulators and silent allosteric modulators of the μ-opioid receptor. *Proc. Natl. Acad. Sci. U.S.A.* **110(26)**, 10830-10835 (2013).

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