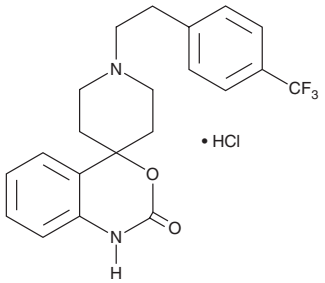
PRODUCT INFORMATION

RS 102895 (hydrochloride)

Item No. 18207

CAS Registry No.:	1173022-16-6
Formal Name:	1'-[2-[4-(trifluoromethyl)phenyl]ethyl]-spiro[4H-3,1-benzoxazine-4,4'-piperidin]-2(1H)-one, monohydrochloride
MF:	$C_{21}H_{21}F_3N_2O_2$ • HCl
FW:	426.9
Purity:	≥98%
UV/Vis.:	λ_{max}: 204, 279 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

RS 102895 (hydrochloride) is supplied as a crystalline solid. A stock solution may be made by dissolving the RS 102895 (hydrochloride) in the solvent of choice, which should be purged with an inert gas. RS 102895 (hydrochloride) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of RS 102895 (hydrochloride) in these solvents is approximately 2, 30, and 25 mg/ml, respectively.

RS 102895 (hydrochloride) is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, RS 102895 (hydrochloride) should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. RS 102895 (hydrochloride) has a solubility of approximately 0.3 mg/ml in a 1:2 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

The chemokine CCL2, also known as monocyte chemotactic protein-1 (MCP-1), stimulates leukocyte chemotaxis to sites of inflammation *via* signaling through the MCP-1 receptor, CCR2. RS 102895 is a spiropiperidine compound that acts as a CCR2 antagonist (IC_{50} = 0.36 µM).[1] It inhibits the related CCR1 receptor with an IC_{50} value of 17.8 µM and inhibits adrenergic α_{1a}, α_{1d}, and $5HT_{1A}$ receptors with IC_{50} values of 0.13, 0.32, and 47 µM, respectively.[1] RS 102895 prevents chemotaxis of THP-1 cells (IC_{50} = 1.7 µM) when MCP-1 is presented as a chemoattractant.[1]

Reference

1. Mirzadegan, T., Diehl, F., Ebi, B., *et al*. Identification of the binding site for a novel class of CCR2b chemokine receptor antagonists: Binding to a common chemokine receptor motif within the helical bundle. *J. Biol. Chem.* **275(33)**, 25562-25571 (2000).

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