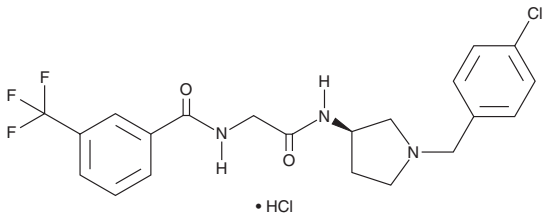
PRODUCT INFORMATION

Teijin Compound 1 (hydrochloride)

Item No. 30977

CAS Registry No.: 1313730-14-1
Formal Name: N-[2-[[(3R)-1-[(4-chlorophenyl) methyl]-3-pyrrolidinyl]amino]-2-oxoethyl]-3-(trifluoromethyl)-benzamide, monohydrochloride
MF: $C_{21}H_{21}ClF_3N_3O_2 \bullet HCl$
FW: 476.3
Purity: ≥98%
Supplied as: A 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

Teijin compound 1 (hydrochloride) is supplied as a solid. A stock solution may be made by dissolving the teijin compound 1 (hydrochloride) in the solvent of choice, which should be purged with an inert gas. Teijin compound 1 (hydrochloride) is soluble in the organic solvent DMSO. It is also soluble in water. The solubility of teijin compound 1 (hydrochloride) in DMSO and water is approximately 100 and 10 mM, respectively. We do not recommend storing the aqueous solution for more than one day.

Description

Teijin compound 1 is an antagonist of chemokine (C-C motif) receptor 2b (CCR2b; IC_{50} = 180 nM in a radioligand binding assay).[1,2] It inhibits chemotaxis induced by chemokine (C-C motif) ligand 2 (CCL2) in THP-1 cells with an EC_{50} value of 24 nM.[1]

References

1. Moree, W.J., Kataoka, K.-i., Ramirez-Weinhouse, M.M., *et al.* Small molecule antagonists of the CCR2b receptor. Part 2: Discovery process and initial structure-activity relationships of diamine derivatives. *Bioorg. Med. Chem. Lett.* **14(21)**, 5413-5416 (2004).
2. Hall, S.E., Mao, A., Nicolaidou, V., *et al.* Elucidation of binding sites of dual antagonists in the human chemokine receptors CCR2 and CCR5. *Mol. Pharmacol.* **75(6)**, 1325-1336 (2009).

CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.CAYMANCHEM.COM