



Product Specification Sheet

Product Name: TAK-779

Catalog Number: C8257

Technical information:

Chemical Formula: C₃₃H₃₉N₂O₂·Cl

CAS #: 229005-80-5

Molecular Weight: 531.14

Purity: > 98%

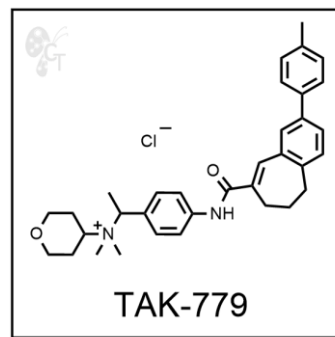
Appearance: Off-white solid

Solubility: Soluble in DMSO up to 37 mM

Chemical Name: 1-(4-amino-2-(ethoxymethyl)-1H-imidazo[4,5-c]quinolin-1-yl)-2-methylpropan-2-ol

Storage: For longer shelf life, store solid powder or DMSO solution at -20°C desiccated.

Shelf Life: In the unopened package, powder is stable for 1 year and DMSO solution is stable for 6 months under proper storage condition.



- Handling:**
- To make 10 mM stock solution, add 0.188mL of DMSO for each mg of TAK-779.
 - For DMSO solution, briefly spin the vial at 500 rpm in a 50 mL conical tube to ensure maximum sample recovery.

Biological Activity: TAK-779 was the first non-peptide antagonist for C-C chemokine receptor type 5 (CCR5) receptor that effectively blocks the cell entry of R5-type HIV [1]. TAK-779 is also an antagonist of CCR2b and CXC chemokine receptor 3 (CXCR3) [2]. Treatment with TAK-779 reduced incidence and severity of experimental autoimmune encephalomyelitis due to reduced migration of inflammatory cells into the CNS [3].

- Reference:**
1. Baba M, et al. A small-molecule, nonpeptide CCR5 antagonist with highly potent and selective anti-HIV-1 activity. Proc. Natl. Acad. Sci. 1999; 96(10): 5698-5703 Pubmed ID: 10318947
 2. Gao P, et al. The unique target specificity of a nonpeptide chemokine receptor antagonist: Selective blockade of two Th1 chemokine receptors CCR5 and CXCR3. J Leukoc Biol 2003; 73(2): 273-280 Pubmed ID: 12554804
 3. Kim MB, et al. CCR5 receptor antagonists in preclinical to phase II clinical development for treatment of HIV. Expert Opin Investig Drugs. 2016; 25(12): 1377-1392. Pubmed ID: 27791451
 4. Ni J, et al. The chemokine receptor antagonist, TAK-779, decreased experimental autoimmune encephalomyelitis by reducing inflammatory cell migration into the central nervous system, without affecting T cell function. Br J Pharmacol 2009; 158(8):2046-56. Pubmed ID: 20050195

To reorder: <http://www.cellagentech.com/TAK-779/>

For Technical Support: technical@cellagentech.com

Chemicals are sold for research use only, not for clinical or diagnostic use.