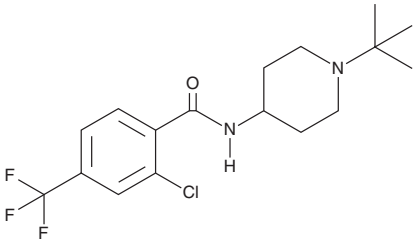
PRODUCT INFORMATION

CAY10766

Item No. 30604

CAS Registry No.: 2739990-96-4
Formal Name: 2-chloro-N-[1-(1,1-dimethylethyl)-4-piperidinyl]-4-(trifluoromethyl)-benzamide
MF: $C_{17}H_{22}ClF_3N_2O$
FW: 362.8
Purity: ≥98%
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

CAY10766 is supplied as a crystalline solid. A stock solution may be made by dissolving the CAY10766 in the solvent of choice, which should be purged with an inert gas. CAY10766 is soluble in organic solvents such as DMSO and dimethyl formamide (DMF). The solubility of CAY10766 in these solvents is approximately 10 and 11 mg/ml, respectively.

CAY10766 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, CAY10766 should first be dissolved in DMF and then diluted with the aqueous buffer of choice. CAY10766 has a solubility of approximately 0.3 mg/ml in a 1:2 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

CAY10766 is an antiviral compound.[1] It inhibits entry of influenza virus-like particles pseudotyped with hemagglutinin A (HA) from H5N1 influenza A virus into A549 cells (EC_{50} = 0.24 µM). CAY10766 (1 µM) reduces H1N1 and H5N1 influenza A viral titers in infected MDCK cells. It also exhibits synergy with oseltamivir carboxylate in MDCK cells infected with the influenza A reporter PR8-NS1-Gluc virus.

Reference

1. Gaisina, I.N., Peet, N.P., Cheng, H., *et al*. Optimization of 4 aminopiperidines as inhibitors of influenza A viral entry that are synergistic with oseltamivir. *J. Med. Chem.* **63(6)**, 312-3130 (2020).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

WARRANTY AND LIMITATION OF REMEDY
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