

ML348

Quality Control Certificate of Analysis

Catalogue No.: A010-701

Unit Size: 1mg

Lot No: 4069M

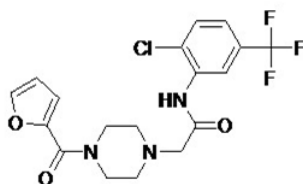
Full chemical name

N-[2-Chloro-5-(trifluoromethyl)phenyl]-4-(2-furanylcarbonyl)-1-piperazineacetamide

Description

ML348 is a competitive and reversible inhibitor of acyl palmitoyl thio-esterase 1 (APT1 – an enzyme encoded by the lysopholipase 1 gene (LYPLA1)). With a $K_i = 300\text{nM}$ and an $IC_{50} = 840\text{nM}$, it exhibits a 14 fold greater selectivity for APT1 over APT2 (K_i and $IC_{50} > 10\mu\text{M}$).

Structure



CAS no.

899713-86-1

Physical properties

White solid

HPLC Purity

>98%

Molecular weight

415.79 g

Molecular formula

$C_{18}H_{17}ClF_3N_3O_3$

Solubilisation

DMSO (48.5 mg/ml = 116.6 mM)

Handling

Store at 4°C