

Product Name : Ciliobrevin D

Synonyms : Ciliobrevin D

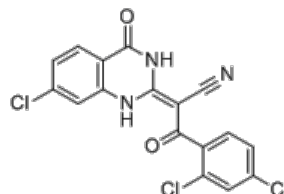
Cat No. : M11528

CAS Number : 1370554-01-0

Molecular Formula : C₁₇H₈Cl₃N₃O₂

Formula Weight : 392.62

Chemical Name : 2-(7-chloro-4-oxo-3,4-dihydroquinazolin-2(1H)-ylidene)-3-(2,4-dichlorophenyl)-3-oxopropanenitrile



Description : Ciliobrevin D is a cell-permeable, reversible, specific inhibitor of cytoplasmic dynein, blocks dynein-dependent microtubule gliding and ATPase activity while sparing kinesin dependent cellular trafficking; selectively affects retrograde transport, inhibits the bidirectional transport of organelles along sensory axons and impairs NGF-mediated regulation of growth cones and axon branches, disrupts spindle pole focusing and kinetochore-microtubule attachment at 10-40 uM.

Pathway : Cytoskeleton/Cell Adhesion Molecules

Target : Dynein

Receptor : Dynein

Solubility : —

SMILES : N#C/C(C(=CC=C(Cl)C=C1Cl)=O)=C(N2)/NC3=C(C=CC(Cl)=C3)C2=O

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Sainath R, et al. Dev Neurobiol. 2015 Jul;75(7):757-77.
2. Melemedjian OK, et al. Mol Pain. 2014 Jul 4;10:45.
3. See SK, et al. ACS Chem Biol. 2016 Jan 15;11(1):53-60.
4. Firestone AJ, et al. Nature. 2012 Mar 18;484(7392):125-9.