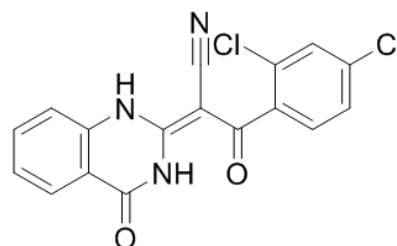


Product Name : Ciliobrevin A
Cat. No. : PC-42258
CAS No. : 302803-72-1
Molecular Formula : C₁₇H₉Cl₂N₃O₂
Molecular Weight : 358.1783
Target : Dynein
Solubility : DMSO: ≥ 34 mg/mL



Biological Activity

Ciliobrevin A (HPI-4) is a small molecule **Hedgehog** pathway inhibitor (IC₅₀=7 μM) that acts downstream of Su(fu) to modulate Gli processing, activation or trafficking, inhibits AAA+ ATPase motor cytoplasmic **dynein**.

Ciliobrevin does not directly target Smo, blocks the proliferation of cerebellar granule neuron precursors expressing an oncogenic form of Smo.

Ciliobrevin disrupts spindle pole assembly and kinetochore-microtubule attachment, inhibits melanosome aggregation and peroxisome motility in cultured cells.

References

Firestone AJ, et al. **Nature**. 2012 Mar 18;484(7392):125-9.

Hyman JM, et al. **Proc Natl Acad Sci U S A**. 2009 Aug 18;106(33):14132-7.

Clippinger AJ, et al. **Genes Dev**. 2012 Sep 15;26(18):2015-26.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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