

V-11-0711 hydrochloride

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

Biological Description

Description	V-11-0711 (hydrochloride) is a potent and selective Chk- α inhibitor with an IC ₅₀ of 20 nM. This compound significantly reduces PCho levels and can cause reversible growth arrest. At high concentrations, V-11-0711 (hydrochloride) induces apoptosis. It is applicable in research on cervical cancer and triple-negative breast cancer.
Targets(IC ₅₀)	Apoptosis
In vitro	V-11-0711 (hydrochloride), at concentrations of 0.1-10 μ M over 48 hours, reduces the levels of PC and GPC in MDA-MB-231 and SUM149 cells. It does not decrease Chk- α protein levels in SUM149 cells at low doses, but it reduces them by approximately 50% at higher doses. At a 10 μ M concentration, it significantly lowers PtdCho levels and raises fatty acid levels in SUM149 cells. Additionally, V-11-0711 increases the number of lipid droplets in these cells by about 1.8 times at 10 μ M. At this concentration, it also induces apoptosis in SUM149 cells.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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