Data Sheet (Cat.No.T68743)

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AZD4877 HCl

Chemical Properties

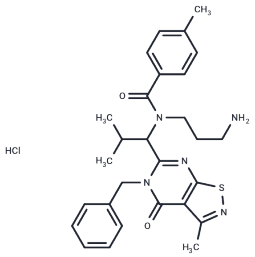
CAS No. : 758722-12-2

Formula: C28H34ClN5O2S

Molecular Weight: 540.123

Appearance: no data available

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



Biological Description

Description	AZD4877 is a synthetic kinesin spindle protein (KSP) inhibitor with potential antineoplastic activity. KSP inhibitor AZD4877 selectively inhibits microtubule motor protein KSP (also called kinesin-5 or Eg5), which may result in the inhibition of mitotic spindle assembly; activation of the spindle assembly checkpoint; induction of cell cycle arrest during the mitotic phase; and cell death in tumor cells that are actively dividing. Because KSP is not involved in postmitotic processes, such as neuronal transport, this agent may be less likely to cause the peripheral neuropathy often associated with the tubulin-targeting agents. Eg5 is essential for the formation of bipolar spindles and the proper segregation of sister chromatids during mitosis.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8514 mL	9.2572 mL	18.5144 mL
5 mM	0.3703 mL	1.8514 mL	3.7029 mL
10 mM	0.1851 mL	0.9257 mL	1.8514 mL
50 mM	0.037 mL	0.1851 mL	0.3703 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

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