(R)-BI-2536

Potent and selective inhibitor of mammalian Plk1

Polo-like kinase 1 (Plk1) is a regulator of the cell cycle that has been implicated in the pathology of many cancers. BI-2536 is a potent and selective small-molecule inhibitor of mammalian Plk1. It has inhibitory activity at subnanomolar concentrations and inhibits tumor growth in multiple tumor lines with IC_{50} values below 1 µM. BI-2536 also shows an >1,000-fold selectivity for PIK1 versus a large panel of other kinases. BI-2536 also demonstrated low K_d values against sister kinases Plk2 and Plk3. Preclinical studies in human cancer cell lines have shown that BI 2536 disrupts spindle assembly, resulting in mitotic arrest and inducing apoptosis. BI-2536 is currently in clinical trials against several types of solid tumor cancers.

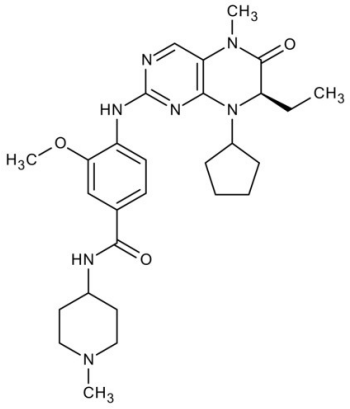
Ordering Information

Order Online »

ENZ-CHM160-0005	5mg

Manuals, SDS & CofA

View Online »


CH3
N
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HN
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CH3
H3C
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Handling & Storage

Use/Stability	As indicated on product label or CoA when stored as recommended.
Short Term Storage	+4°C
Long Term Storage	-20°C
Shipping	Ambient Temperature

Regulatory Status

RUO - Research Use Only

Product Details

Appearance	Off-white to yellow powder.
CAS	755038-02-9
Couple Target	Plk
Couple Type	Inhibitor
Formula	$C_{28}H_{39}N_7O_3$
Identity	Determined by NMR.
MW	521.7
Purity	≥97% (HPLC)
Solubility	Soluble in DMSO (21mg/ml) or ethanol (100mg/ml).

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