Product Data Sheet

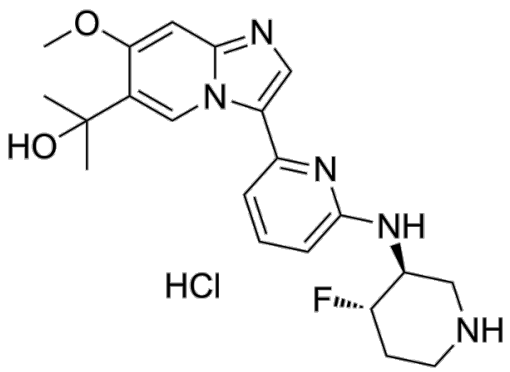
Product Name: IRAK1/4/pan-FLT3 Kinase-IN-1 hydrochloride
Cat. No.: GC79420

Chemical Properties

Cas. No.

Formula	$C_{21}H_{27}ClFN_5O_2$	M.Wt	435.92
Solubility	DMSO: 200 mg/mL (458.80 mM; Need ultrasonic)	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		

Structure



Background

Product Data Sheet

IRAK1/4/pan-FLT3 Kinase-IN-1 hydrochloride is an orally active, potent and selective IRAK / pan-FLT3 kinase inhibitor with IC_{50} s of 5 nM, 0.6 nM and <0.5 nM against IRAK1, IRAK4 and FLT3, respectively. IRAK1/4/pan-FLT3 Kinase-IN-1 hydrochloride can be used for research on AML [1].

In Vivo, IRAK1/4/pan-FLT3 Kinase-IN-1 (Compound 31) (10 mg/kg; i.p.; 5th a week) hydrochloride produces significant prolongation of survival relative to vehicle in a mouse xenograft model of AML[1].

In Vitro, IRAK1/4/pan-FLT3 Kinase-IN-1 (Compound 31) hydrochloride exhibits Kds of 0.53 nM, 0.096 nM and 0.074 nM against IRAK1, IRAK4 and FLT3, respectively[1]. IRAK1/4/pan-FLT3 Kinase-IN-1 hydrochloride exhibits IC50s of 5 nM, 0.6 nM and <0.5 nM against IRAK1, IRAK4 and FLT3, respectively[1]. IRAK1/4/pan-FLT3 Kinase-IN-1 hydrochloride inhibits phosphorylation of FLT3 or IRAK substrates in MOLM14 (D835Y) or THP1 cells[1].

Caution: Product has not been fully validated for medical applications. For research use only.
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