



Trametinib

Catalog No: tcsc0060

Z	Available Sizes
Size:	10mg
Size:	50mg
Size:	100mg
Size:	200mg
Size:	500mg
Size:	1g
Size:	2g
Size:	5g
	Specifications
CAS N 87170	lo: 0-17-3
Form	ula: 3 ^{FIN} 5 ^O 4
Pathv MAPK/	vay: 'ERK Pathway
Targe MEK	et:
Purity >98%	y / Grade:
Solub	ility:





DMSO: 33.33 mg/mL (54.16 mM; Need ultrasonic)

Alternative Names:

GSK1120212;JTP-74057

Observed Molecular Weight:

615.39

Product Description

Trametinib is a potent **MEK** inhibitor that specifically inhibits MEK1/2, with an **IC**₅₀ value of about 2 nM. Due to the poor solubility of Trametinib, **Trametinib DMSO solvate (Cat. No.: HY-10999A)** is the more commonly used form.

IC50 & Target: IC50: 2 nM (MEK1/2)^[1]

In Vitro: Trametinib (0.1-100 nM) blocks tumor necrosis factor- α and interleukin-6 production from peripheral blood mononuclear cells (PBMCs). Trametinib (JTP-74057) inhibits the growth of 9 out of 10 human colorectal cancer cell lines, and they shows cell-cycle arrest at the G1 phase after drug tratment^[1]. The combination of GSK2118436 and Trametinib (GSK1120212) effectively inhibits cell growth, decreases ERK phosphorylation, decreases cyclin D1 protein, and increases p27(kip1) protein in the resistant clones^[2].

In Vivo: Adjuvant-induced arthritis (AIA) and type II collageninduced arthritis (CIA) development are suppressed almost completely by 0.1 mg/kg of Trametinib (JTP-74057) or 10 mg/kg of Leflunomide^[1]. Trametinib (0.3 mg/kg, 1 mg/kg, p.o.) is effective in inhibiting the HT-29 xenograft growth in a nude mouse xenograft model^[2].

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