



## **Trametinib**

**Catalog No: tcsc0060** 

且	Available Sizes
Size:	10mg
Size:	50mg
Size:	100mg
Size:	200mg
Size:	500mg
Size:	<b>1</b> g
Size:	2g
Size:	5g
	Specifications
<b>CAS N</b> 87170	<b>lo:</b> 0-17-3
Form	ula: 3 <sup>FIN</sup> 5 <sup>O</sup> 4
Pathv MAPK/	<b>vay:</b> 'ERK Pathway
<b>Targe</b> 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**<sub>50</sub> 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)<sup>[1]</sup>

In Vitro: Trametinib (0.1-100 nM) blocks tumor necrosis factor- $\alpha$  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<sup>[1]</sup>. 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<sup>[2]</sup>.

*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<sup>[1]</sup>. 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<sup>[2]</sup>.

All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!