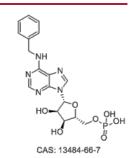


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Product Name	:	IST5-002
Cat. No.	:	PC-20634
CAS No.	:	13484-66-7
Molecular Formula	:	C <sub>17</sub> H <sub>20</sub> N <sub>5</sub> O <sub>7</sub> P
Molecular Weight	:	437.34
Target	:	STAT
Solubility	:	10 mM in DMSO

## **Data Sheet**

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## **Biological Activity**

IST5-002 is a specific small molecule taregeting **STAT5 SH2-domain**, inhibits both **Stat5a/b** phosphorylation and dimerization, robustly inhibits transcriptional activity of Stat5a (IC50=1.5  $\mu$ M) and Stat5b (IC50=3.5  $\mu$ M) in PC-3 cells. IST5-002 blocks Bcr-Abl-induced Stat5a/b phosphorylation at 5  $\mu$ M in Bcr-Abl-positive K562 cells.

IST5-002 blocks phosphorylation of Stat5a/b (CWR22Rv1, IC50=22  $\mu$ M; HC-11, IC50=12  $\mu$ M; T47D, IC50=24.8  $\mu$ M), while total Stat5a/b levels remains unaffected.

IST5-002 shows no specific inhibition of other kinases in a panel of 50 kinases, does not block transcriptional activity of Stat3.

IST5-002 suppresses downstream signaling events and target gene expression induced by Stat5a/b in PC and CML cells. IST5-002 suppresses Stat5a/b-mediated growth of PC through induction of apoptosis in experimental models of PC in vitro, in vivo and ex vivo.

## References

Liao Z, et al. *Mol Cancer Ther.* 2015 Aug;14(8):1777-93.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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