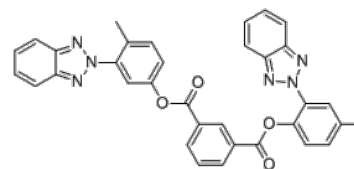


Product Name : IGF2BP2 inhibitor JX5
Cat. No. : PC-49190
CAS No. : 301207-96-5
Molecular Formula : C₃₄H₂₄N₆O₄
Molecular Weight : 580.604
Target : Other Targets
Solubility : 10 mM in DMSO



Biological Activity

IGF2BP2 inhibitor JX5 is a specific small-molecule inhibitor of N6-methyladenosine (m6A) reader insulin-like growth factor 2 mRNA-binding protein 2 (**IGF2BP2**) with K_d of 93.2 uM in internal fluorescence quenching measurement assays, suppresses T-ALL cells proliferation via downregulation of NOTCH1 expression.

JX5 showed dramatic cytotoxicity against Jurkat cells with IGF2BP2 overexpression, with minor effects on Jurkat cells transduced with IGF2BP2 shRNA. caused cell apoptosis on Jurkat cells.

JX5 has no effect on the IGF2BP2 mRNA levels but significantly down regulated the NOTCH1 expression.

JX5 (1 mg/kg or 2 mg/kg) by intraperitoneal injection impaired T-ALL expansion in T-ALL xenografts, with no overt toxicity or effect on mouse body weight and gastrointestinal system

References

Panpan Feng, et al. *Leukemia*. 2022 Aug 1. doi: 10.1038/s41375-022-01651-9.

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

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