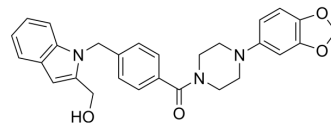


## AVJ16

Cat. No.:	HY-144873
CAS No.:	2775241-92-2
Molecular Formula:	C <sub>28</sub> H <sub>27</sub> N <sub>3</sub> O <sub>4</sub>
Molecular Weight:	469.53
Target:	Insulin Receptor
Pathway:	Protein Tyrosine Kinase/RTK
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 250 mg/mL (532.45 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	2.1298 mL	10.6489 mL	21.2979 mL
				5 mM	0.4260 mL	2.1298 mL	4.2596 mL
				10 mM	0.2130 mL	1.0649 mL	2.1298 mL
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (4.43 mM); Clear solution  2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (4.43 mM); Clear solution						

### BIOLOGICAL ACTIVITY

Description	AVJ16 is a cancer cell migration inhibitor that targets the insulin-like growth factor 2 mRNA binding protein IGF2BP1 to inhibit the migration of H1299 cells with high endogenous IGF2BP1 expression. AVJ16 interferes with IGF2BP1 binding target mRNA to regulate gene expression and translation <sup>[1]</sup> .
IC <sub>50</sub> & Target	Insulin-like growth factor 2 mRNA binding protein (IGF2BP1) <sup>[1]</sup>

### REFERENCES

[1]. Singh A, et al. Development of a Novel IGF2BP1 Inhibitor as Metastasis-Specific Therapeutic Agent[J]. European Journal of Cancer, 2022, 174: S104-S105.

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

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