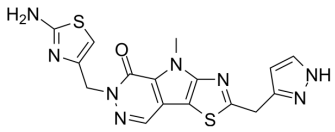
PKR activator 1

Cat. No.:	HY-135883
CAS No.:	2283420-62-0
Molecular Formula:	$C_{16}H_{14}N_8OS_2$
Molecular Weight:	398.47
Target:	Pyruvate Kinase
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	PKR activator 1 is a potent pyruvate kinase-R (PKR) activator extracted from patent WO2019035865A1, compound E7-93[1].
IC_{50} & Target	Pyruvate kinase-R (PKR)[1]
In Vitro	Pyruvate kinase (PK) is a metabolic enzyme that converts phosphoenolpyruvate to pyruvate during glycolysis. Four PK iso forms exist in mammals: the L and R iso forms (from the PKLR gene) are expressed in liver and red blood cells respectively, and the PKM gene encodes two splice variants, the Ml isoform that is expressed in most adult tissues, and the M2 isoform that is expressed during embryonic development and in some adult tissues including the kidney and hematopoietic stem cells. Many tumor cells also express PKM2. This tetrameric allosterically regulated isoform is intrinsically designed to downregulate its activity, through post-translational modification, allosteric modulation by small molecule ligands including some amino acids, and by subunit dissociation (into the dimeric form), which results in partial inhibition of glycolysis at the last step[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Charles KUNG, et al. Pyruvate kinase modulators and use thereof. WO2019035865A1.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA