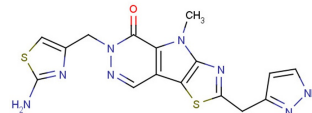


## PKR activator 1

## Chemical Properties

CAS No.:	2283420-62-0
Formula:	C <sub>16</sub> H <sub>14</sub> N <sub>8</sub> O <sub>2</sub> S
Molecular Weight:	398.47
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



## Biological Description

Description	PKR activator 1 is a potent activator of pyruvate kinase-R (PKR).
Targets(IC <sub>50</sub> )	Others: None
In vitro	Four Pyruvate kinase(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 M1 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].

## Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.51 mL	12.548 mL	25.096 mL
5 mM	0.502 mL	2.51 mL	5.019 mL
10 mM	0.251 mL	1.255 mL	2.51 mL
50 mM	0.05 mL	0.251 mL	0.502 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

## Reference

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

Inhibitors · Natural Compounds · Compound Libraries

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