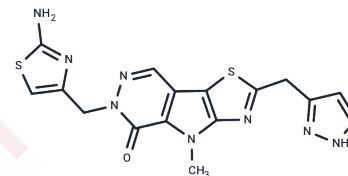


PKR activator 1

Chemical Properties

CAS No. :	2283420-62-0
Formula:	C ₁₆ H ₁₄ N ₈ O ₂ S
Molecular Weight:	398.47
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	PKR activator 1 is a potent activator of pyruvate kinase-R (PKR).
Targets(IC50)	Others,PKM
In vitro	Four isoforms of Pyruvate kinase (PK) are found in mammals: L and R isoforms, produced by the PKLR gene, are expressed in the liver and red blood cells, respectively. The PKM gene is responsible for two splice variants: M1, prevalent in most adult tissues, and M2, found during embryonic development and in specific adult tissues, such as the kidney and hematopoietic stem cells. Additionally, many tumor cells express PKM2. This tetrameric isoform, which is allosterically regulated, is naturally predisposed to suppress its activity through several mechanisms: post-translational modifications, allosteric alterations by small molecules including certain amino acids, and conversion into a dimeric form. These processes lead to a partial blockade of glycolysis at its final stage[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5096 mL	12.548 mL	25.096 mL
5 mM	0.5019 mL	2.5096 mL	5.0192 mL
10 mM	0.251 mL	1.2548 mL	2.5096 mL
50 mM	0.0502 mL	0.251 mL	0.5019 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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