## Hydroxypyruvic acid

MedChemExpress

Cat. No.:	HY-113013		
CAS No.:	1113-60-6		
Molecular Formula:	$C_{_3}H_{_4}O_{_4}$		
Molecular Weight:	104.06		
Target:	Endogenou	is Metabo	olite
Pathway:	Metabolic E	Enzyme/F	Protease
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

## SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	9.6098 mL	48.0492 mL	96.0984 mL
	5 mM	1.9220 mL	9.6098 mL	19.2197 mL	
		10 mM	0.9610 mL	4.8049 mL	9.6098 mL

DIOLOGICALACITY		
Description	Hydroxypyruvic acid (β-Hyd Hydroxypyruvic acid is a sul reductase. Hydroxypyruvic pathway.	droxypyruvic acid) is an intermediate in the metabolism of glycine, serine and threonine. bstrate for serine-pyruvate aminotransferase and glyoxylate reductase/hydroxypyruvate acid is involved in the metabolic disorder which is the dimethylglycine dehydrogenase deficiency
IC <sub>50</sub> & Target	Human Endogenous Metab	olite
In Vivo	Hydroxypyruvic acid (intrav excretion to 0.68% (6.56 μm 0.79% (7.59 μmol) of the do MCE has not independently Animal Model:	yenous injection; 100 mg/ml; slowly over 10 min) increases the 5-h urinary oxalate and glycolate nol) and 0.53% (5.10 μmol) in control rats, in addition, it increases to 2.43% (23.36 μmol) and ose in the vitamin-B6-deficient rats <sup>[1]</sup> . confirmed the accuracy of these methods. They are for reference only. SD rat <sup>[1]</sup>

 $\cap$ 

HO

ΟH

Dosage:	100 mg/ml; slowly over 10 min
Administration:	Intravenous injection
Result:	Led to a significant increase of urinary oxalate and glycolate excretion in both control and vitamin-B6-deficient rats, but these changes are exaggerated in the vitamin-B6-deficient group.

## REFERENCES

[1]. Teerajetgul Y, et al. Oxalate synthesis from hydroxypyruvate in vitamin-B6-deficient rats. Urol Res. 2007 Aug; 35(4):173-8. Epub 2007 Jun 13.

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

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