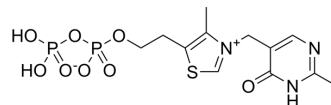


## Oxythiamine diphosphate

Cat. No.:	HY-112889
CAS No.:	10497-04-8
Molecular Formula:	C <sub>12</sub> H <sub>17</sub> N <sub>3</sub> O <sub>8</sub> P <sub>2</sub> S
Molecular Weight:	425.29
Target:	Transketolase
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

Description	Oxythiamin diphosphate is a potent transketolase (TK) inhibitor <sup>[1]</sup> .
IC <sub>50</sub> & Target	Ki: 30 nM (thiamine pyrophosphate) <sup>[1]</sup> .
In Vitro	Rat liver TK is inhibited at 50% by oxythiamine diphosphate in concentrations of 0.02–0.2 μM. I <sub>50</sub> value of Oxythiamine diphosphate for yeast transketolase is approximately 0.03 μM <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### CUSTOMER VALIDATION

- Cell Chem Biol. 2022 Jul 21;S2451-9456(22)00244-6.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

### REFERENCES

[1]. Tylicki A, et al. Thiamine and selected thiamine antivitamin - biological activity and methods of synthesis. Biosci Rep. 2018;38(1):BSR20171148. Published 2018 Jan 10.

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

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