

## Deoxypyridinoline

## Chemical Properties

CAS No. :	83462-55-9
Formula:	C18H28N4O7
Molecular Weight:	412.44
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

## Biological Description

Description	Deoxypyridinoline is one of two pyridinium cross-links that provide structural stiffness to type I collagen found in bones. It is excreted unmetabolized in urine and is a specific marker of bone resorption and osteoclastic activity.
Targets(IC50)	Endogenous Metabolite

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4246 mL	12.123 mL	24.246 mL
5 mM	0.4849 mL	2.4246 mL	4.8492 mL
10 mM	0.2425 mL	1.2123 mL	2.4246 mL
50 mM	0.0485 mL	0.2425 mL	0.4849 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

Tabatabaei N, Rodd CJ, Kremer R, Weiler HA. Osteocalcin, but not deoxypyridinoline, increases in response to isoflurane-induced anaesthesia in young female guinea pigs. *J Bone Miner Metab.* 2015 May;33(3):253-60. doi: 10.1007/s00774-014-0593-7. Epub 2014 May 24. PubMed PMID: 24858976.

Shi J, Wang Z, Li H, Yuan H. Diagnostic performance of the urinary deoxypyridinoline in spinal tuberculosis. *Orthopedics.* 2012 Jun;35(6):e922-6. doi: 10.3928/01477447-20120525-36. PubMed PMID: 22691668.

Ochoa-Martínez PY, Hall-Lopez JA, Ávila FA, Rocha CA, Moreira MH, Dantas EH. Effect of three months of periodized hydrogymnastics exercise program on urinary concentration of deoxypyridinoline in older women. *Arch Endocrinol Metab.* 2015 Dec;59(6):523-7. doi: 10.1590/2359-3997000000102. PubMed PMID: 26677086.

Vanderspank D, Bernier SM, Sopper MM, Watson P, Mottola MF. Activity restriction increases deoxypyridinoline excretion in hospitalized high-risk pregnant women. *Biol Res Nurs.* 2014 Jan;16(1):7-15. doi: 10.1177/1099800412463120. Epub 2012 Oct 17. PubMed PMID: 23079370.

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