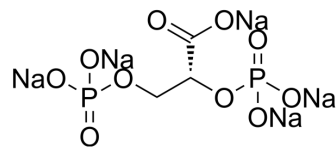


## 2,3-Diphospho-D-glyceric acid pentasodium salt

Cat. No.:	HY-138822
CAS No.:	102783-53-9
Molecular Formula:	C <sub>3</sub> H <sub>3</sub> Na <sub>5</sub> O <sub>10</sub> P <sub>2</sub>
Molecular Weight:	375.95
Target:	Others
Pathway:	Others
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### BIOLOGICAL ACTIVITY

#### Description

2,3-Diphospho-D-glyceric acid pentasodium salt is a highly anionic polyphosphorus compound. 2,3-Diphospho-D-glyceric acid is present in the concave center of red blood cells, it binds hemoglobin to reduce its oxygen affinity. 2,3-Diphospho-D-glyceric acid is an endogenous, selective inhibitor of vascular calcification (VC) and significantly delays the formation of crystalline calpain particles (CPP). 2,3-Diphospho-D-glyceric acid also inhibits calcification in mouse vascular smooth muscle cell line (MOVAS) without cytotoxic effects<sup>[1]</sup>.

### REFERENCES

[1]. Kharaghani D, Kohno S, Minamizaki T, et al. 2, 3-Diphospho-D-glyceric acid inhibits calciprotein particle growth and calcification in MOVAS cells but not in MC3T3-E1 cells[J]. Colloid and Interface Science Communications, 2022, 50: 100668.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA