

Native Diisopropyl-fluorophosphatase

Cat. No. NATE-0183

Lot. No. (See product label)

Introduction

- **Description** In enzymology, a diisopropyl-fluorophosphatase (EC 3.1.8.2) is an enzyme that catalyzes the chemical reaction:diisopropyl fluorophosphate + H2O↔ diisopropyl phosphate + fluoride. Thus, the two substrates of this enzyme are diisopropyl fluorophosphate and H2O, whereas its two products are diisopropyl phosphate and fluoride. This enzyme belongs to the family of hydrolases, specifically those acting on ester bonds phosphoric-triester hydrolases. It employs one cofactor, divalent cation. At least one compound, Chelating agent is known to inhibit this enzyme.
- SynonymsEC 3.1.8.2, DFPase; tabunase; somanase; organophosphorus acid anhydrolase; organophosphate acid
anhydrase; OPA anhydrase; diisopropylphosphofluoridase; dialkylfluorophosphatase; diisopropyl
phosphorofluoridate hydrolase; isopropylphosphorofluoridase; diisopropylfluorophosphonate
dehalogenase; 9032-18-2

Product Information

EC Number	EC 3.1.8.2
CAS No.	9032-18-2
Activity	> 30 units/mg
Unit Definition	One unit corresponds to the amount of enzyme which hydrolyzes 1 μmol diisopropyl fluorophosphate per minute at pH 8.1 and 22°C

Usage and Packaging

Package Bottomless glass bottle. Contents are inside inserted fused cone.