

## 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 + H<sub>2</sub>O ⇌ diisopropyl phosphate + fluoride. Thus, the two substrates of this enzyme are diisopropyl fluorophosphate and H<sub>2</sub>O, 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.

**Synonyms** EC 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.