

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.

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.