

Active Diisopropyl-fluorophosphatase

Cat. No. DFPase-89 **Lot. No.** (See product label)

SPECIFICATION

Product Overview

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. CAS# 9032-18-2. This enzyme belongs to the family of hydrolases, specifically those acting on ester bonds phosphoric-triester hydrolases. The systematic name of this enzyme class is diisopropyl-fluorophosphate fluorohydrolase. Other names in common use include DFPase, tabunase, somanase, organophosphorus acid anhydrolase, organophosphate acid anhydrase, OPA anhydrase, diisopropylphosphofluoridase, dialkylfluorophosphatase, diisopropyl phosphorofluoridate hydrolase, isopropylphosphorofluoridase, and diisopropylfluorophosphonate dehalogenase. It employs one cofactor, divalent cation. At least one compound, Chelating agent is known to inhibit this enzyme.

Bio-activity

≥30 U/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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA