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 reactiondiisopropyl fluorophosphate + H2O \rightleftharpoons diisopropyl phosphate + fluorideThus, 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

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