Creative Enzymes®

pteridine reductase

Cat. No. EXWM-1515

Lot. No. (See product label)

Introduction

Description	The enzyme from Leishmania (both amastigote and promastigote forms) catalyses the reduction by NADPH of folate and a wide variety of unconjugated pterins, including biopterin, to their tetrahydro forms. It also catalyses the reduction of 7,8-dihydropterins and 7,8-dihydrofolate to their tetrahydro forms. In contrast to EC 1.5.1.3 (dihydrofolate reductase) and EC 1.5.1.34 (6,7-dihydropteridine reductase), pteridine reductase will not catalyse the reduction of the quinonoid form of dihydrobiopterin. The enzyme is specific for NADPH; no activity has been detected with NADH. It also differs from EC 1.5.1.3 (dihydrofolate reductase) in being specific for the Si-face of NADPH.
Synonyms	PTR1; pteridine reductase 1

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 1.5.1.33
CAS No.	131384-61-7
Reaction	5,6,7,8-tetrahydrobiopterin + 2 NADP+ = biopterin + 2 NADPH + 2 H+
Notes	This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.

Storage and Shipping Information

Storage	Store it at +4 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.