Creative Enzymes®

homospermidine synthase

Cat. No. EXWM-2780

Lot. No. (See product label)

Introduction

Description	The reaction of this enzyme occurs in three steps, with some of the intermediates presumably remaining enzyme-bound: NAD+-dependent dehydrogenation of putrescine, transfer of the 4-aminobutylidene group from dehydroputrescine to a second molecule of putrescine and reduction of the imine intermediate to form homospermidine. Hence the overall reaction is transfer of a 4-aminobutyl group. Differs from EC 2.5.1.45, homospermidine synthase (spermidine-specific), which cannot use putrescine as donor of the aminobutyl group.

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 2.5.1.44
CAS No.	76106-84-8
Reaction	(1) 2 putrescine = sym-homospermidine + NH3 + H+; (2) putrescine + spermidine = sym-homospermidine + propane-1,3-diamine
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 ℃.