

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 °C for short term. For long term storage, store it at -20 °C~-80 °C.