

sarcosine reductase

Cat. No. EXWM-1258 Lot. No. (See product label)

Introduction	
Description	The reaction is observed only in the direction of sarcosine reduction. The enzyme from Eubacterium acidaminophilum consists of subunits A, B and C. Subunit B contains selenocysteine and a pyruvoyl group, and is responsible for sarcosine binding and methylamine release. Subunit A, which also contains selenocysteine, is reduced by thioredoxin, and is needed to convert the carboxymethyl group into a ketene equivalent, in turn used by subunit C to produce acetyl phosphate. Only subunit B distinguishes this enzyme from EC 1.21.4.2 (glycine reductase) and EC 1.21.4.4 (betaine reductase).
Product Information	
Form	Liquid or lyophilized powder
EC Number	EC 1.21.4.3
CAS No.	125752-88-7
Reaction	acetyl phosphate + methylamine + thioredoxin disulfide + H2O = N-methylglycine + phosphate + thioredoxin
Notes	This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.
Storege and Chinging Information	

Storage and Shipping Information

Storage

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