



The ENZYME Company

Enzyme	Prototype	Recognition Sequence	Cat No	Package, u.a.
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Sfr274 I	Xho I	C [^] TCGAG GAGCT [^] C	245020	2000 units
			245100	10000 units

Lot-number:	Assayed:	Quantity:

Origin	Streptomyces fradiae 274
Concentration	20000-40000, u.a./ml
Storage conditions	10 mM Tris-HCl (pH 7.5); 50 mM KCl; 0.1 mM EDTA; 7 mM 2-mercaptoethanol; 200 ug/ml BSA; 50% glycerol.. Store at -20°C.
Ligation	After 20-fold overdigestion with enzyme more than 90% of the DNA fragments can be ligated and recut.
Non-specific activity	No nonspecific activity was detected after incubation of 1 ug of DNA with 50 u.a. of enzyme for 16 hours at 50°C.
Optimum temperature	50 °C
Inactivation 20 minutes under 65 °C	Yes
Optimum SE-buffer	B (10 mM Tris-HCl (pH 7.6 at 25°C); 10 mM MgCl ₂ ; 1 mM DTT.)

Enzyme activity in % of maximum :

B	G	O	W	Y
100	75 - 100	50 - 75	50 - 75	75 - 100

Note: Blocked by methylation CTCG^mAG. Not blocked by methylation CT^mCGAG

References: Puchkova, L.I., Krivopalova, G.N., Andreeva, I.S., Selina, A.V., Serov, G.D., Rechkunova, N.I., Degtyarev, S.Kh. Izv. Sib. Otd. Akad. Nauk SSSR 1: 32-34 (1990).

Unit-definition	One unit of the enzyme is the amount required to hydrolyze 1 µg of DNA in 1 hour in a total reaction volume of 50 µl. Concentrated enzymes are diluted to approximately 1000 units/ml with the buffer (10mM Tris-HCL (ph7.6); 50 mM KCL; 0,1 mM EDTA; 1 mM DTT; 200 µg/ml BSA; 50% glycerol) before determining their activity.
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