The ENZYME Company

Enzyme	Prototype	Recognition Sequence	Cat No	Package, u.a.
Acc65 I	Kpn I^	G^GTACC CCATG^G	205010	1000 units
			205050	5000 units

Lot-number:	Assayed:	Quantity:

Origin	Acinetobacter calcoaceticus 65
Concentration	10000-30000, units/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 10-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 10 u.a. of enzyme for 16 hours at 37°C.
Optimum temperature	37 °C
Inactivation 20 minutes under 65 °C	Yes
Optimum SE-buffer	**W** (10 mM Tris-HCl (pH 8.5 at 25°C); 10 mM $MgCl_2$; 100 mM NaCl; 1 mM DTT.)

Enzyme activity in % of maximum :

B	G	O	W	Y
10 - 25	25 - 50	75 - 100	100	10 - 25

Note: Bloked by overlapping Dcm methylation(C^mCWGG): **GGTA<u>CC</u><u>WGG</u>**.
References: Prichodko, G.G., Rechkunova, N.I., Repin, V.E., Degtyarev, S.Kh., Sib. Biol. J. 1: 59-60 (1991).

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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