
Product Data Sheet

Product Name: REV1 Human
 Cat. No.: GP22217
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	REV1 Polymerase (DNA Directed); REV1L; Alpha Integrin-Binding Protein 80; Rev1-Like Terminal Deoxycytidyl Transferase; AIBP80; REV1 (Yeast Homolog)- Like; REV1 Homolog (S. Cerevisiae) ; REV1-Like (Yeast) ; DNA Repair Protein REV1; REV1 Homolog; REV1- Like; EC 2.7.7.-.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGVAIYVNGY TDPSAEELRK LMMLHGGQYH VYYSRSKTTH IIATNLPNAK IKELKGEKVI RPEWIVESIK AGRLLSYIPY QLYTKQSSVQ KGLSFNPVCR PEDPLPGPSN IAKQLNNRVN HIVKKIETEN EVKVNGMNSW NEEDENNDFS FVDLEQTSPG RKQNGIPHR GSTAIFNGHT PSSNGALKTQ DCLVPMVNSV ASRLSPA.		
Formulation	The REV1 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.4M Urea and 10% glycerol.		

Introduction

REV1 Polymerase (REV1) contains a BRCT domain, which is imperative in protein-protein interactions. REV1 is a deoxycytidyl transferase involved in DNA repair. REV1 assists in the 1st step in the bypass of abasic lesions by the incorporation of a nucleotide opposite the lesion. REV1 is essential for normal generation of mutations by physical and chemical agents. REV1 transfers a dCMP residue from dCTP to the 3'-end of a DNA primer in a template-dependent reaction. A role for the human Rev1-like protein has been suggested as a scaffold which recruits DNA polymerases involved in translesion synthesis (TLS) of damaged DNA.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1%

Caution: Product has not been fully validated for medical applications. For research use only.

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HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

REV1 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 227 amino acids (51-256) and having a molecular mass of 25.2kDa. REV1 is fused to a 21 amino acid His-tag at N-terminus.

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