

EnzSmart U+ Taq HS DNA Polymerase

Product Information

Cat#	ENZD-P03
Reaction	200 rxns; 500 rxns
Unit Concentration	20 μ l/rxn
Description	EnzSmart U+ Taq HS DNA Polymerase is an enzyme with strong 3' mismatch recognition capability and high specificity, selected through the EnzSmart platform. It binds to a high-blocking-rate bispecific antibody to form a hot-start Taq enzyme, maintaining strict blocking at 55°C. Combined with an optimized buffer system, it effectively reduces non-specific amplification caused by primer-probe cross-mixing during sample mixing, system warming, and long-term storage, supporting pre-mixing of primers and probes. This product is sold in separate enzyme and buffer formulations, allowing for flexible adjustment of enzyme, Mg ²⁺ , and dNTP concentrations to suit various system differences. It is suitable for various hot-start Taq enzyme-based PCR and qPCR reactions. Furthermore, the product includes additional UDG enzyme, dUTP, and dTTP components, supporting the construction of a custom UDG anti-contamination system and providing greater operational flexibility.
Features	Better premixed probe stability; Excellent amplification linearity; Includes dUTP/UDG anti-pollution system.
Applications	Hot-start PCR/qPCR; gene expression analysis; multiplex pathogen detection; tumor detection
Components	EnzSmart Taq HS DNA Polymerase (5 U/ μ l) 10 x BioSmart Taq HS Buffer (Mg ²⁺ free) MgCl ₂ (100 mM) dA/C/GTP Mix (10 mM each) dTTP (25 mM) dUTP (25 mM) Heat-labile UDG (2 U/ μ l)

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Quality Control

1. Good premixed stability
2. Excellent amplification linearity

Shipping and Storage Conditions

Store at -30 ~ -15°C, transport at ≤0°C.