

Recombinant *Geobacillus Stearothermophilus* PCRA Protein (10-289 aa), His-SUMO-tagged

Cat. No. PCRA-1771G Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant <i>Geobacillus Stearothermophilus</i> (<i>Bacillus stearothermophilus</i>) PCRA Protein (10-289 aa) is produced by E. coli expression system. This protein is fused with a 6xHis-SUMO tag at the N-terminal. Protein Description: Partial.
Species	<i>Geobacillus Stearothermophilus</i>
Source	E.coli
ProteinLength	10-289 aa
Description	DNA helicase. Has a broad nucleotide specificity, even being able to hydrolyze ethenonucleotides, and is able to couple the hydrolysis to unwinding of DNA substrates. It is a 3'-5' helicase but at high protein concentrations it can also displace a substrate with a 5' tail. Preferred substrate being one with both single and double-stranded regions of DNA.
Form	Tris-based buffer, 50% glycerol
Molecular Mass	48.6 kDa
AA Sequence	AHLNKEQQEAVRTTEGPLLIMAGAGSGKTRVLTHRIAYLMAEKHVAPWNILAITFTNK AAREMRERVQSLGGAEDVWISTFHSMCVRILRRDIDRIGINRNFSLDPTDQLSVM KTILKEKNIDPKKFEPRTILGTISAANKNELLPPEQFAKRASTYYEKVSDVYQEYQQRL LRNHSLDFDDLIMTTIQLFDRVPDVLHYYQYKFQYIHIDEYQDTNRAQYTLVKLAER

Tel: 1-631-559-9269 1-516-512-3133

Email: info@creative-biomart.com Fax: 1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA

FQNICAVGDADQSIYRWRGADIQNILSFERDYPNAKVILLEQNYRST

Purity > 90% as determined by SDS-PAGE.

Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

Storage The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

Concentration A hardcopy of COA with reconstitution instruction is sent along with the products.

GENE INFORMATION

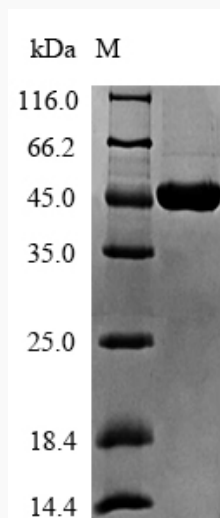
Synonyms pcrA;

UniProt ID [P56255](#)

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(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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