

DisA Protein, Mycobacterium paratuberculosis, Recombinant (His & Myc)

General Information

Synonyms:	disA;DNA integrity scanning protein DisA;Cyclic di-AMP synthase (c-di-AMP synthase); Diadenylate cyclase
Protein Construction:	1-357 aa
Species:	Mycobacterium paratuberculosis
Expression Host:	E. coli
Accession:	Q743W9
Molecular Weight:	45.9 kDa (predicted)
AA Sequence:	MTRPTLRETVARLAPGTGLRDGLERILRGRGTGALIVLGNDENVEAICDGGFALDVRYAPTRLRELAKMDGAVVL STDGSRIVRANVQLVPDPSIATDESGTRHRSAAERAAIQTGYPVISVSHSMNIVTVYVGGERHVVADSATILSRA NQAIATLERYKIRLDEVSRQLSRAEIEDFVTLRDVLTVVQRLELVRRIGQVIDNDVVELGTDGRQLRLQLDELLG GNDNARELIVRDYHASPEQLSEAQMTATLDELDA LSDTELLDFTALAKVFGYPTTTEAQDSAVSPRGYRALAG IPRLQFAHADLLVRSFGTLQNVLAASASDLQSIDGIGAMWARHVREGLSQAESTITDLSL

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Participates in a DNA-damage check-point. DisA forms globular foci that rapidly scan along the chromosomes searching for lesions.; Has also diadenylate cyclase activity, catalyzing the condensation of 2 ATP molecules into

A DRUG SCREENING EXPERT

cyclic di-AMP (c-di-AMP). c-di-AMP likely acts as a signaling molecule that may couple DNA integrity with a cellular process.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481