



Recombinant Bacillus subtilis Inositol 2-dehydrogenase/D-chiro-inositol 3-dehydrogenase (iolG)

Product Code	CSB-EP329675BRG
Relevance	Involved in the oxidation of myo-inositol (MI) and D-chiro-inositol (DCI) to 2-keto-myoinositol (2KMI or 2-inosose) and 1-keto-D-chiro-inositol (1KDCI), respectively. Can also use D-glucose and D-xylose, and shows a trace of activity with D-ribose and D-fructose.
Abbreviation	Recombinant Bacillus subtilis iolG protein
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°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P26935
Alias	Myo-inositol 2-dehydrogenase/D-chiro-inositol 3-dehydrogenase ;MI 2-dehydrogenase/DCI 3-dehydrogenase
Product Type	Recombinant Protein
Immunogen Species	Bacillus subtilis (strain 168)
Purity	≥ 90% as determined by SDS-PAGE.
Sequence	MSLRIGVIGTGAIGKEHINRITNKLSGAEIVAVTDVNQEAQKVVEQYQLNATVY PNDDSLADENVDVAVLVTWGPAAHESSVLKAIKAQKYVFCEKPLATTAEGCMR IVEEEIKVGRKRLVQVGFMRRYDSGYVQLKEALDNHVIGEPLMIHCAHRNPTVG DNYTTDMAVVDLTVHEIDVLHWLVNDDYESVQVIYPKKSKNALPHLKDPQIVVI ETKGGIVINAEIYVNCKYGYDIQCEIVGEDGIIKLPEPSSISLRKEGRFSTDILMD WQRRFVAAYDVEIQDFIDSIQKKGEVSGPTAWDGYIAAVTTDACVKAQESGQK EKVELKEKPEFYQSFTTVQN
Research Area	Others
Source	E.coli
Target Names	iolG
Expression Region	1-344aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-SUMO-tagged
Mol. Weight	54.4kDa
Protein Length	Full Length
Image	



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

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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