

Product: Protein Disulfide Isomerase (PDI), human, recombinant
Catalog #: 12-4318
Amount: 50 µg

DESCRIPTION: Recombinant human Protein Disulfide Isomerase (rHuPDI)
rHuPDI is involved in disulphide-bond formation and isomerization, as well as the reduction of disulphide bonds in proteins. rHuPDI is a single, non-glycosylated, polypeptide chain containing 508 amino acids and having a molecular mass of 57,116 Dalton.
The sequence of the first five N-terminal amino acids was determined and was found to be Met-Leu-Arg-Arg-Ala
rHuPDI is contained N-terminal 6xHis-tag and purified by proprietary chromatographic techniques.

SOURCE: *Escherichia coli* expression system

PURITY: > 95%, as determined by:
(a) Analysis by RP-HPLC and anion-exchange FPLC
(b) Analysis by reducing and non-reducing SDS-PAGE Silver Stained gel

ENDOTOXIN: Less than 0.1 ng/µg (IEU/µg) of rHuPDI

DIMERS & AGGREGATES: Less than 1% as determined by silver stained SDS-PAGE gel analysis

REDUCTASE ACTIVITY: $1.0 \times 10^{-3} \Delta 650\text{nm}/\text{min}^{-2}$. By measuring the turbidity increase at 650 nm due to insulin reduction (Holmgren, A. (1979) J. Biol. Chem. 254, 9627–9632).
The activity is expressed as the ratio of the slope of a linear part of the turbidity curve to the lag time (Martínez-Galisteo, E., et al. (1993) Biochimie (Paris) 75, 803–809).

ISOMERASE ACTIVITY: 0.5 µmol active RNase A min⁻¹ µmol PDI⁻¹. According to the re-activation of reduced and denatured RNase A (Lyles, M. M. & Gilbert, H. F. (1991) Biochemistry 30, 613-619).

FORM: Purified, in 50mM potassium phosphate buffer pH=7.5, containing 0.1% BSA

STORAGE: -20°C (aliquot), avoid freezing and thawing cycles

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