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Product Datasheet

Human SOD3 protein, His tag, Unconjugated GTX00276-PRO

Artikelname	Human SOD3 protein, His tag, Unconjugated
Artikelnummer	GTX00276-PRO
Hersteller Artikelnummer	GTX00276-pro
Alternativnummer	GTX00276-PRO-10
Hersteller	GeneTex
Kategorie	Proteine/Peptide
Applikation	FA
Spezies Reaktivität	Human
Konjugation	Unconjugated
NCBI	6649
UniProt	P08294
Puffer	Reconstitute with 20mM Tris and 150mM NaCl to 0.1-1.0mg/ml. Do not vortex. Lyophilized from 20mM Tris, 150mM NaCl, 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose, ProClin 300.
Expression System	HEK293 cells
Formulierung	Lyophilized powder
Sequenz	N-terminal His-Tag, Trp19~Ala240 (NP_003093.2)

Anwendungsbeschreibung

Extracellular superoxide dismutase [Cu-Zn] is an enzyme that in humans is encoded by the SOD3 gene. This gene encodes a member of the superoxide dismutase (SOD) protein family. SODs are antioxidant enzymes that catalyze the dismutation of two superoxide radicals into hydrogen peroxide and oxygen. According to the report, in a weakly alkaline buffer solution (pH 8.2) with N-tris (hydroxymethyl) amino methane-HCl, pyrogallol can occur autooxidation in the air, then SOD can inhibit this reaction. Thus, we use this way to measure the activity of recombinant human SOD3. The reaction was performed in adding 30µl pyrogallol (50mmol/L) to 900µl Tris-HCl (50mmol/L) in 1.5 ml cuvette (1.0 cm light path), rapidly mixing at 25C, then read at 325nm (zero the spectrophotometer using 50 mmol/L Tris-HCl) , record the OD value every 30 second for 6 times. Control the pyrogallol autooxidation rate at 0.70 OD/min. After, adding various concentrations of recombinant of SOD3 to 900µl Tris-HCl (50 mmol/L), incubated for 20min at 25C, then adding 30µl pyrogallol (50 mmol/L) to each tube, rapidly mixing and read at 325nm, record the OD value every 30 second for 6 times. Under these conditions, the enzyme amount of 50% per minute inhibition of pyrogallol autooxidation is defined as a unit.