

Superoxide Dismutase 3, Extracellular (SOD3) Active Protein | SOD3 active protein

Active Superoxide Dismutase 3, Extracellular (SOD3)

CATALOG # AAA152980	HOST 293F Cell	APPLICATIONS Activity Assay, Cell Culture
-------------------------------	--------------------------	---

PRODUCT SYNONYMS

Superoxide Dismutase 3; Extracellular (SOD3); Active Superoxide Dismutase 3; Extracellular; SOD3 active protein (eukaryotic; 293F Cell); Mouse; SOD-3; EC-SOD; Extracellular Superoxide Dismutase Cu-Zn; SOD3 active protein

PRODUCT SPECIFICATIONS

Host	293F Cell
Purity/Purification	Greater than 90% by SDS-PAGE
Form/Format	PBS, pH7.4, containing 0.01% SKL, 5% Trehalose. Freeze-dried powder
Sequence Positions	Ser25~Thr251
Applicable Applications for SOD3 active protein	Activity Assay, Cell Culture
Expression System	Eukaryotic expression
Species	Mouse
Tag	N-terminal His
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method)
Isoelectric Point	6.8
Research Area	Enzyme & Kinase
Preparation and Storage	Store at 2-8 degree C for one month, -80 degree C for 12 months Stable for 12 months if correctly stored.

IMAGES

Calculation

$$\text{SOD3 activity (U/mg)} = \frac{\frac{0.070 - A_{325} / \text{min}}{0.070} \times 100\%}{50\%} / M$$

Where:

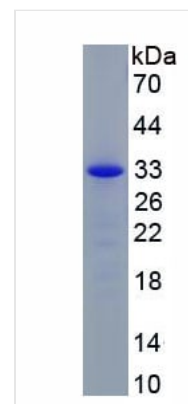
0.070=pyrogallol autooxidation rate

A325/min= inhibition pyrogallol autooxidation rate of SOD3

M=mass of enzyme

Bioactivity

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 r



SDS-PAGE

Figure. SDS-PAGE

ADDITIONAL INFORMATION

Product Categories/Family for SOD3 active protein	Active proteins
---	-----------------

NCBI AND UNIPROT INFORMATION

NCBI GI #	6755600
NCBI GeneID	20657
NCBI Accession #	NP_035565.1
NCBI GenBank Nucleotide #	NM_011435.3
UniProt Accession #	O09164
Molecular Weight	27,392 Da
NCBI Official Full Name	extracellular superoxide dismutase
NCBI Official Synonym Full Names	superoxide dismutase 3, extracellular
NCBI Official Symbol	Sod3
NCBI Official Synonym Symbols	EC-SOD; AI314465
NCBI Protein Information	extracellular superoxide dismutase [Cu-Zn]
UniProt Protein Name	Extracellular superoxide dismutase [Cu-Zn]
UniProt Gene Name	Sod3
UniProt Synonym Gene Names	EC-SOD
UniProt Entry Name	SODE_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/293f-cell-active-protein/superoxide-dismutase-3-extracellular-sod3/152980>