



Human SOD1 blocking peptide (DAG-P1196)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	The protein encoded by this gene binds copper and zinc ions and is one of two isozymes responsible for destroying free superoxide radicals in the body. The encoded isozyme is a soluble cytoplasmic protein, acting as a homodimer to convert naturally-occurring but harmful superoxide radicals to molecular oxygen and hydrogen peroxide. The other isozyme is a mitochondrial protein. Mutations in this gene have been implicated as causes of familial amyotrophic lateral sclerosis. Rare transcript variants have been reported for this gene. [provided by RefSeq, Jul 2008]
Conjugate	Unconjugated
Applications	BL
Sequence Similarities	Belongs to the Cu-Zn superoxide dismutase family.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	SOD1 superoxide dismutase 1, soluble [Homo sapiens (human)]
Official Symbol	SOD1
Synonyms	SOD1; superoxide dismutase 1, soluble; ALS; SOD; ALS1; IPOA; hSod1; HEL-S-44; homodimer; superoxide dismutase [Cu-Zn]; SOD, soluble; indophenoxidase A; Cu/Zn superoxide dismutase; superoxide dismutase, cytosolic; epididymis secretory protein Li 44;

Entrez Gene ID	6647
mRNA Refseq	NM_000454.4
Protein Refseq	NP_000445.1
UniProt ID	P00441
Chromosome Location	21q22.11
Pathway	AGE/RAGE pathway, organism-specific biosystem; Amyotrophic lateral sclerosis (ALS), organism-specific biosystem; Amyotrophic lateral sclerosis (ALS), organism-specific biosystem; Amyotrophic lateral sclerosis (ALS), conserved biosystem; Cellular responses to stress, organism-specific biosystem; Detoxification of Reactive Oxygen Species, organism-specific biosystem; Dopamine metabolism, organism-specific biosystem; FOXA1 transcription factor network, organism-specific biosystem; Folate Metabolism
Function	Rac GTPase binding; chaperone binding; copper ion binding; identical protein binding; protein binding; protein homodimerization activity; protein phosphatase 2B binding; superoxide dismutase activity; superoxide dismutase activity; superoxide dismutase ac