

Product datasheet for BA1116

Catalase Human Protein

Product data:

Product Type:	Native Proteins
Description:	Catalase human protein, 1 mg
Species:	Human
Protein Source:	Erythrocytes
Concentration:	lot specific
Purity:	95% pure (SDS-PAGE)
Buffer:	Presentation State: Purified State: Liquid Buffer System: 50mM Tris, pH 8.0 and no preservatives
Bioactivity:	Specific: 71,836 Units/mg protein. One unit is equal to the amount of enzyme that will decompose 1 umole of hydrogen peroxide per minute at 25°C, pH 7.4.
Preparation:	Liquid
Note:	Caution: All human source materials have tested negative for HIV1, HIV2, HCV antibodies and HBsAg. No test guarantees a product to be non-infectious. Therefore, all material derived from human fluids or tissues should be considered as potentially infectious.
Storage:	Store at -20°C. Avoid multiple freeze/thaw cycles.
Stability:	Shelf life: Six months from despatch.
RefSeq:	NP_001743
Locus ID:	847
Cytogenetics:	11p13
Summary:	This gene encodes catalase, a key antioxidant enzyme in the bodies defense against oxidative stress. Catalase is a heme enzyme that is present in the peroxisome of nearly all aerobic cells. Catalase converts the reactive oxygen species hydrogen peroxide to water and oxygen and thereby mitigates the toxic effects of hydrogen peroxide. Oxidative stress is hypothesized to play a role in the development of many chronic or late-onset diseases such as diabetes, asthma, Alzheimer's disease, systemic lupus erythematosus, rheumatoid arthritis, and cancers. Polymorphisms in this gene have been associated with decreases in catalase activity but, to date, acatalasemia is the only disease known to be caused by this gene. [provided by RefSeq, Oct 2009]



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Protein Families: Druggable Genome

Protein Pathways: Amyotrophic lateral sclerosis (ALS), Metabolic pathways, Methane metabolism, Tryptophan metabolism