

Product datasheet

Recombinant Human Glutaredoxin 5 protein ab95352

[1 References](#) [1 Image](#)

Description

Product name	Recombinant Human Glutaredoxin 5 protein
Purity	> 85 % SDS-PAGE. Purified using conventional chromatography techniques.
Expression system	Escherichia coli
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MGSSHHHHHH SSGLVPRGSH MSGSLGRAAA ALLRWGRGAG GGGLWGPVVR AAGSGAGGGG SAEQLDALVK KDKVVVFLKG TPEQPQCGFS NAVVQILRLH GVRDYAAYNV LDDPELRQGI KDYSNWPTIP QVYLNGEFVG GCDILLQMHQ NGDLVEELKK LGIHSALLDE KKDQDSK

Specifications

Our **Abpromise guarantee** covers the use of **ab95352** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE
Form	Liquid

Preparation and Storage

Stability and Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. pH: 8.00 Constituents: 0.316% Tris HCl, 20% Glycerol (glycerin, glycerine), 0.58% Sodium chloride
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General Info

Function	Monothiol glutaredoxin involved in the biogenesis of iron-sulfur clusters. Required for normal iron homeostasis. Required for normal regulation of hemoglobin synthesis by the iron-sulfur protein ACO1.
Involvement in disease	Defects in GLRX5 are a cause of anemia sideroblastic pyridoxine-refractory autosomal recessive (PRARSA) [MIM:205950]. A form of sideroblastic anemia not responsive to pyridoxine. Sideroblastic anemia is characterized by anemia of varying severity, hypochromic peripheral erythrocytes, systemic iron overload secondary to chronic ineffective erythropoiesis, and the presence of bone marrow ringed sideroblasts. Sideroblasts are characterized by iron-loaded mitochondria clustered around the nucleus.
Sequence similarities	Belongs to the glutaredoxin family. Monothiol subfamily. Contains 1 glutaredoxin domain.
Cellular localization	Mitochondrion.

Images



15% SDS-PAGE showing ab95352 at approximately 19 kDa (3 µg).

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