

Recombinant Human CRYZL1, His-tagged

Cat. No. CRYZL1-2404H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human CRYZL1 protein, fused to His-tag at N-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques, 40.8 kDa (369aa).
Species	Human
Source	E.coli
Description	CRYZL1, also known as quinone oxidoreductase, is a protein that has sequence similarity to zeta crystalline. This Protein is present at low levels in human lens tissue. It has NADPH-dependent quinone reductase activity distinct from other known quinone reductases, and may play a role as a pH response element-binding protein. CRYZL1 is expressed at various levels in heart, brain, skeletal muscle, kidney, pancreas, liver and lung.
Form	Liquid. In 20 mM Tris-HCl buffer (pH8.0) containing 2mM DTT, 0.1M NaCl, 20% glycerol.
Purity	> 95% by SDS – PAGE.
Concentration	0.5 mg/ml (determined by Bradford assay).
Sequences Of Amino Acids	MGSSHHHHHH SSGLVPRGSH MKGLYFQQSS TDEEITFVFQ EKEDLPVTED NFVKLQVKAC ALSQINTKLL AEMKMKKDLF PVGREIAGIV LDVGSKVSFF QPDDEVVGIL PLDSEDPGLC EVVRVHEHYL VHKPEKVTWT EAAGSIRDGV

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RAYTALHYLS HLSPGKSVLI MDGASAFGTI AIQLAHHRGA KVISTACSLE
 DKQCLERFRP PIARVIDVSN GKVHVAESCL EETGGLGVDI VLDAGVRLYS
 KDDEPAVKLQ LLPHKHDIIT LLGVGGHWVT TEENLQLDPP DSHCLFLKGA
 TLAFLNDEVW NLSNVQQGKY LCILKDVMEK LSTGVFRPQL DEPIPLYEAK
 VSMEAVQKNQ GRKKQVVQF.

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION
Gene Name

CRYZL1 crystallin, zeta (quinone reductase)-like 1 [Homo sapiens]

Synonyms

crystallin, zeta (quinone reductase)-like 1; 4P11; QOH-1; CRYZL1; quinone oxidoreductase-like protein 1; protein 4P11; zeta-crystallin homolog; quinone reductase-like 1; quinone oxidoreductase homolog 1 ; crystallin, zeta-like 1; Zeta-crystallin homolog; EC 1.-.-.-; human quinone oxidoreductase homolog-19

Gene ID

9946

mRNA Refseq

NM_145858

Protein Refseq

NP_665857

MIM

603920

UniProt ID

O95825

**Chromosome
Location**

21q21.3

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Function

NADP or NADPH binding; NADPH:quinone reductase activity; binding; oxidoreductase activity; zinc ion binding

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