

Product information



CRS (IB-03-0005)

Catalog No. : IB-03-0005

Product Name : CysteinyI tRNA synthetase Protein

Lot No. : PCP14-HN

Molecular Weight : 85kDa

Protein Construction : full length

Source : Human

Purification : Multi-step chromatography

Expression system : Recombinant human CRS expressed by *E.coli*.

Conjugate/Tag : N-term 6XHis tag

Background : CRS is a class 1 aminoacyl-tRNA synthetase, cysteinyI-tRNA synthetase. Each of the twenty aminoacyl-tRNA synthetase catalyzes the aminoacylation of a specific tRNA or tRNA isoaccepting family with the cognate amino acid.

Storage buffer : 1X PBS(pH7.2) 200mM NaCl 20% Glycerol

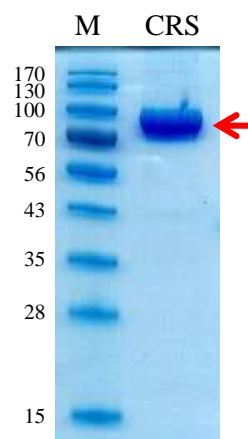
Storage instruction : Store at -70°C.

Purity : 95%

Quantity : 50µg

Concentration : 0.50mg/ml

Application : Western blot, ELISA, antibody production, protein array, activity assay.



Loading : 3.5 µg

Reference :

1. Allosteric Communication in CysteinyI tRNA Synthetase A NETWORK OF DIRECT AND INDIRECT READOUT. Amit Ghosh et al., *THE JOURNAL OF BIOLOGICAL CHEMISTRY*, Vol.286(43), 37721–37731, 2011
2. Lysine acetylation targets protein complexes and co-regulates major cellular functions. Choudhary C. et al., *Science*, Vol.325, 834-840, 2009
3. Human chromosome 11 DNA sequence and analysis including novel gene identification. Taylor T.D. et al., *Nature*, Vol.440, 497-500, 2006
4. Shape-selective RNA recognition by cysteinyI-tRNA synthetase. Scott Hauenstein et al., *Nature structural & molecular biology*, Vol.11, 2004
5. Aminoacyl-tRNA synthetases: Versatile players in the changing theater of translation. CHRISTOPHER

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



Manufactured for:

Immuno-Biological Laboratories, Inc. (IBL-America)
8201 Central Ave. NE, Suite P, Minneapolis, Minnesota 55432, USA

Phone: (888) 523-1246

Fax.: (763) 780-2988

Email: info@ibl-america.com

Web: www.ibl-america.com

Product information



FRANCKLYN et al., *RNA*, Vol.8, 1363–1372, 2002

6. Isolation of two cDNAs encoding functional human cytoplasmic cysteinyl-tRNA synthetase. Davidson E. et al., *Biol. Chem*, Vol.382, 339-406, 2001

7. A dual-specificity aminoacyl-tRNA synthetase in the deep-rooted eukaryote *Giardia lamblia*, Shipra Bunjun et al., *PNAS*, Vol.97(24), 12997–13002, 2000

8. An elongation factor-associating domain is inserted into human cysteinyl-tRNA synthetase by alternative splicing. Jee Eun Kim et al., *Nucleic Acids Research*, Vol.28(15), 2866-2872, 2000,

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



Manufactured for:

Immuno-Biological Laboratories, Inc. (IBL-America)
8201 Central Ave. NE, Suite P, Minneapolis, Minnesota 55432, USA

Phone: (888) 523-1246

Fax.: (763) 780-2988

Email: info@ibl-america.com

Web: www.ibl-america.com