# Product Data Sheet

Product Name: Ribosomal protein L3 peptide (202-222) amide
Cat. No.: GP10147

## Chemical Properties

| | | | |
|---|---|---|---|
| Cas. No. | | | |
| Formula | $C_{114}H_{182}N_{42}O_{25}S$ | M.Wt | 2573 |
| Solubility | ≥ 257.3mg/mL in DMSO | Storage | Store at -20°C |
| General tips | For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months. | | |
| Shipping Condition | Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request. | | |
| Structure | | | |

## Background

Ribosomal protein L3 peptide (202-222),(C114H182N42O25S), a peptide with the sequenceH2N-Met-Ser-His-Arg-Lys-Tyr-Glu-Ala-Pro-Arg-His-Gly-His-Leu-Gly-Phe-Leu-Pro-Arg-Lys-Arg-amide, MW=2573. Ribosomes are the particles that catalyse mRNA-directed protein synthesis in all organisms. The codons of the mRNA are exposed on the ribosome to allow tRNA binding. This leads to the incorporation of amino acids into the growing polypeptide chain in accordance with the genetic information[1].Ribosomal protein L3 is one of the proteins from the large ribosomal subunit. In Escherichia coli, L3 is known to bind to the 23S rRNA and may participate in the formation of the peptidyltransferase centre of the ribosome[2]. This gene encodes a ribosomal protein that is a component of the 60S subunit. The protein belongs to the L3P family of ribosomal proteins and it is located in the cytoplasm. The protein can bind to the HIV-1 TAR mRNA, and it has been suggested that the protein contributes to tat-mediated transactivation[3].

References:

1. Ou JH, Yen TS, Wang YF, Kam WK, Rutter WJ (Jan 1988). "Cloning and characterization of a human ribosomal protein gene with enhanced expression in fetal and neoplastic


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cells". Nucleic Acids Res 15 (21): 8919–34.
2. Kenmochi N, KawaguchiT, Rozen S, Davis E, Goodman N, Hudson TJ, Tanaka T, PageDC(May 1998). "A Map of 75 Human Ribosomal Protein Genes". Genome Research 8 (5): 509–523.
3. Van Raay TJ, Connors TD, Klinger KW et al. (1997). "A novel ribosomal protein L3-like gene (RPL3L) maps to the autosomal dominant polycystic kidney disease gene region". Genomics 37 (2): 172–6.


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