

**GRS (Glycyl-tRNA synthetase)**

**Cat.NO.: TP02341**

3th Edition

**Synonyms:**CMT2D, DSMAV, GlyRS, SMAD1.

**Description:**Glycyl-tRNA synthetase catalyzes the ligation of glycine with glycyl-tRNA using ATP and its mutation induces Charcot-Marie-Tooth (CMT) disease. This gene encodes glycyl-tRNA synthetase, one of the aminoacyl-tRNA synthetases that charge tRNAs with their cognate amino acids. The encoded enzyme is an (alpha)<sub>2</sub> dimer which belongs to the class II family of tRNA synthetases. It has been shown to be a target of autoantibodies in the human autoimmune diseases, polymyositis or dermatomyositis.

**Form:**Phosphate buffered saline, pH 7.4

**Molecular Weight:**79kDa

**Sequences:**

**Purity:**> 95% by HPLC

**Concentration:**0.40mg/ml

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**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.