

Product datasheet for **AR50481PU-N**

GCLM / GLCLR (1-274, His-tag) Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	GCLM / GLCLR (1-274, His-tag) human recombinant protein, 0.5 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MGSSHHHHHH SSGLVPRGSH MGSHTMGDTSR AAKALLARAR TLHLQGTGNLL NWGRLRKKCP STHSEELHDC IQKTLNEWSS QINPDLVREF PDVLECTVSH AVEKINPDER EEMKVSAKLF IVESNSSSST RSAVDMACSV LGVAQLDSVI IASPPIEDGV NLSLEHLQPY WEELENLVQS KKIVAIGTSD LDKTQLEQLY QWAQVKPNSN QVNLASCCVM PPDLTAFQKQ FDIQLLTHND PKELLSEASF QEALQESIPD IQAHEWVPLW LLRYSVIVKS RGIKSKGYI LQAKRRGS
Tag:	His-tag
Predicted MW:	33.3 kDa
Concentration:	lot specific
Purity:	>90% by SDS - PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 0.15M NaCl
Preparation:	Liquid purified protein
Protein Description:	Recombinant human GCLM protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Storage:	Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	NP_001295182
Locus ID:	2730
UniProt ID:	P48507
Cytogenetics:	1p22.1
Synonyms:	GLCLR



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Summary:

Glutamate-cysteine ligase, also known as gamma-glutamylcysteine synthetase, is the first rate limiting enzyme of glutathione synthesis. The enzyme consists of two subunits, a heavy catalytic subunit and a light regulatory subunit. Gamma glutamylcysteine synthetase deficiency has been implicated in some forms of hemolytic anemia. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Apr 2015]

Protein Families:

Druggable Genome

Protein Pathways:

Glutathione metabolism, Metabolic pathways

Product images: