

Product datasheet for SA6048

Ubiquitin Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Ubiquitin human protein, 0.1 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MQIFVKLTG KTITLEVEPS DTIENVKAKI QDKEGIPPDQ QRLIFAGKQL EDGRTLSDYN IQKESTLHLV LRLRGG
Predicted MW:	8.6 kDa
Concentration:	lot specific
Purity:	>95% by SDS-PAGE
Buffer:	Presentation State: Purified State: Liquid protein Buffer System: 50 mM HEPES (pH 7.5) 150 mM NaCl, 1 mM DTT, 10% glycerol
Preparation:	Liquid protein
Protein Description:	Ubiquitin (76 amino acid) was overexpressed in E. coli and purified by using conventional chromatography techniques.
Storage:	Store at 2 - 8 °C for up to one month or (in aliquots) at -20 °C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	NP_001268645
Locus ID:	7314
UniProt ID:	P0CG47 , Q5U5U6
Cytogenetics:	17p11.2
Synonyms:	HEL-S-50



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Summary:

This gene encodes ubiquitin, one of the most conserved proteins known. Ubiquitin has a major role in targeting cellular proteins for degradation by the 26S proteasome. It is also involved in the maintenance of chromatin structure, the regulation of gene expression, and the stress response. Ubiquitin is synthesized as a precursor protein consisting of either polyubiquitin chains or a single ubiquitin moiety fused to an unrelated protein. This gene consists of three direct repeats of the ubiquitin coding sequence with no spacer sequence. Consequently, the protein is expressed as a polyubiquitin precursor with a final amino acid after the last repeat. An aberrant form of this protein has been detected in patients with Alzheimer's disease and Down syndrome. Pseudogenes of this gene are located on chromosomes 1, 2, 13, and 17. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2013]

Protein Families:

Druggable Genome

Protein Pathways:

Parkinson's disease

Product images: