Active Recombinant Human Ubiquitin AMC Protein

Cat. No. UBB-03H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human ubiquitin AMC Protein without tag was expressed in E. coli.
Species	Human
Source	E.coli
Description	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 proteosome. 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.
Bio-activity	Recombinant Human Ubiquitin-AMC is a fluorogenic substrate for some Ubiquitin-specific isopeptidases. Release of AMC fluorescence can be monitored with an excitation wavelength of 345 nm and an emission wavelength of 445 nm. Reaction conditions will need to be optimized for each specific application. We recommend an initial Recombinant Human Ubiquitin-AMC concentration of 0.1-1 μM.

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Molecular Mass	8.7 kDa
Purity	> 95% by HPLC
Applications	Enzyme Activity
Storage	Protect from light. Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -70 centigrade as supplied. 3 months, -70 centigrade under sterile conditions after opening.
Storage Buffer	2.2 mg/mL (250 µM) in 100% DMSO

GENE INFORMATION

Gene Name	UBB ubiquitin B [Homo sapiens (human)]
Official Symbol	UBB
Synonyms	UBB; ubiquitin B; HEL-S-50; polyubiquitin-B; epididymis secretory protein Li 50; polyubiquitin B
Gene ID	7314
mRNA Refseq	NM_018955
Protein Refseq	NP_061828
MIM	191339
UniProt ID	P0CG47

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