

Recombinant Rat UCHL3/UCH-L3 Protein (His Tag)

Catalog No. PKSR030368

Note: Centrifuge before opening to ensure complete recovery of vial contents.

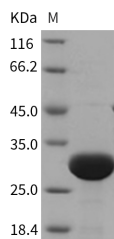
Description

Synonyms	rCG_37146;RGD1561196
Species	Rat
Expression Host	E.coli
Sequence	Glu 2-Ala 230
Accession	Q91Y78
Calculated Molecular Weight	27.5 kDa
Observed molecular weight	28 kDa
Tag	N-His
Bioactivity	Measured by the hydrolysis of UbiquitinAMC. The specific activity is > 14000 pmoles/min/μg.

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	Please contact us for more information.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



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Background

Ubiquitin carboxyl-terminal hydrolase isozyme L3, also known as UCH-L3, Ubiquitin thioesterase L3 and UCHL3, is a

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ubiquitin-protein hydrolase which belongs to the peptidase C12 family. It is involved both in the processing of ubiquitin precursors and of ubiquitinated proteins. This enzyme is a thiol protease that recognizes and hydrolyzes a peptide bond at the C-terminal glycine of either ubiquitin or NEDD8. UCHL3 is highly expressed in heart, skeletal muscle, and testis. UCHL1 and UCHL3 are two of the deubiquitinating enzymes expressed in the brain. These phenotypes indicate the importance of UCHL1 and UCHL3 in the regulation of the central nervous system. UCHL3 functions as a de-ubiquitinating enzyme where lack of its hydrolase activity may result in the prominent accumulation of ubiquitinated proteins and subsequent induction of stress responses in skeletal muscle. UCHL3 has also been identified as a tumor-specific antigen in colon cancer.