UCH-L1 (human), (recombinant) (His-tag)

Ubiquitin C-terminal hydrolases (UCHs) are a family of cysteine hydrolases that catalyze the hydrolysis of amides, esters and thioesters of the C-terminus of ubiquitin. Mammalian neuronal cells abundantly express a deubiquitylating enzyme, ubiquitin carboxy-terminal hydrolase 1 (UCH-L1). Mutations in UCH-L1 are linked to Parkinson's disease as well as gracile axonal dystrophy (gad) in mice. In contrast to the universally expressed UCH-L3 isozyme, UCH-L1 is expressed exclusively in neurons and testis/ovary. It has been shown that UCH-L1 associates and co-localizes with monoubiquitin and elongates ubiquitin half-life and the suggestion is made that UCH-L1, with avidity and affinity for ubiquitin, ensures ubiquitin stability within neurons.

Ordering Information

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BML-UW9740-0050	50µg

Manuals, SDS & CofA

View Online »

Handling & Storage

Long Term Storage	-80°C
Shipping	Dry Ice

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	Ubiquitin C-terminal hydrolase L1, PGP9.5
Formulation	Liquid. In 50 mM TRIS, pH 7.6, containing 1 mM dithiothreitol (DTT).
MW	24.8 kDa
Source	Produced in *E. coli*.
Specific Activity	>100 pmol/min/µg. Determined at 25°C with 1 µM ubiquitin-AMC (BML-SE211) as substrate and UCH-L1 (see protocol).
UniProt ID	P09936

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