abcam

# Product datasheet

# Recombinant Human ProDynorphin protein ab159086

1 Image

## Overview

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|---|---|
| **Product name** | Recombinant Human ProDynorphin protein |
| **Protein length** | Protein fragment |

## Description

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|---|---|
| **Nature** | Recombinant |
| **Source** | Wheat germ |
| **Amino Acid Sequence** | |
| **Species** | Human |
| **Sequence** | RDAQLNDGAMETGTLYLAEEDPKEQVKRYGGFLRKYP KRSSEVAGEGDGD SMGHEDLYKRYGGFLRRIRPKLKWDNQKRYGGFLRRQ FKVVTRSQEDPNA YSGELFDA |
| **Amino acids** | 147 to 254 |
| **Tags** | proprietary tag N-Terminus |

## Specifications

Our Abpromise guarantee covers the use of **ab159086** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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| **Applications** | ELISA<br>Western blot |
| **Form** | Liquid |
| **Additional notes** | Protein concentration is above or equal to 0.05 mg/ml. |

## Preparation and Storage

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| **Stability and Storage** | Shipped on dry ice. Upon delivery aliquot and store at -80ºC. Avoid freeze / thaw cycles.<br>pH: 8.00<br>Constituents: 0.31% Glutathione, 0.79% Tris HCl |

## General Info

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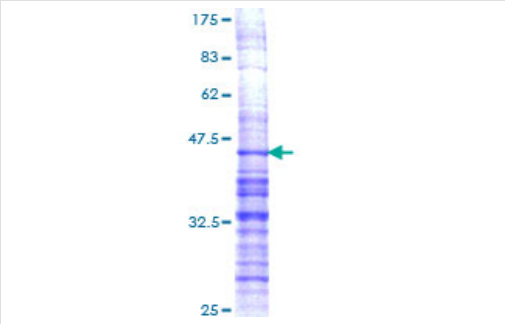
| **Function** | Leu-enkephalins compete with and mimic the effects of opiate drugs. They play a role in a number of physiologic functions, including pain perception and responses to stress.<br>Dynorphin peptides differentially regulate the kappa opioid receptor. Dynorphin A(1-13) has a typical opiod activity, it is 700 times more potent than Leu-enkephalin.<br>Leumorphin has a typical opiod activity and may have anti-apoptotic effect. |
| **Involvement in disease** | Defects in PDYN are the cause of spinocerebellar ataxia type 23 (SCA23) [MIM:610245]. Spinocerebellar ataxia is a clinically and genetically heterogeneous group of cerebellar disorders. Patients show progressive incoordination of gait and often poor coordination of hands, speech and eye movements, due to degeneration of the cerebellum with variable involvement of the brainstem and spinal cord. SCA23 is an adult-onset autosomal dominant form characterized by slowly progressive gait and limb ataxia, with variable additional features, including peripheral neuropathy and dysarthria. |
| **Sequence similarities** | Belongs to the opioid neuropeptide precursor family. |
| **Post-translational modifications** | The N-terminal domain contains 6 conserved cysteines thought to be involved in disulfide bonding and/or processing. |
| **Cellular localization** | Secreted. |

## Images




SDS-PAGE - Recombinant Human ProDynorphin protein (ab159086)

ab159086 on a 12.5% SDS-PAGE stained with Coomassie Blue.



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