

Recombinant Mouse Major urinary protein-1

Type:	Recombinant	Cat. No.:	42150
Tag:	His	Size:	0.1 mg
Source:	E.Coli	Purity:	>95%
Other names:	Mup7, Up-1, Ltn-1, Mup-1, Mup-a, Mup10, Lvtm-1	Species:	Mouse

Introduction

Major urinary protein 1 (Mup1), also known as Mup7, Up-1, Ltn-1, Mup-1, Mup-a, Mup10 and Lvtm-1, is a low molecular weight secreted protein produced predominantly from the liver. Structurally it belongs to the lipocalin family, which carries small hydrophobic ligands such as pheromones. Mup1 is an important player in regulating energy expenditure and metabolism in mice, and its deficiency might contribute to the metabolic dysregulation in obese/diabetic mice.

Description

Total 190 AA. Mw: 22 KDa (calculated). N-terminal His-tag and TEV cleavage site, 28 extra AA (highlighted).

Amino Acid Sequence

MSYYHHHHHH	DYDIPTTENL	YFQGAMGSEE	ASSTGRNFNV	EKINGEWHTI
ILASDKREKI	EDNGNFRLFL	EQIHVLENSL	VLKFHTVRDE	ECSELSMVD
KTEKAGEYSV	TYDGFNTFTI	PKTDYDNFLM	AHLINEKDGE	TFQLMGLYGR
EPDLSSDIKE	RFAQQLCEKHG	ILRENIIDLS	NANRCLQARE	

Formulation

Lyophilized in PBS.

Reconstitution

Add deionized water to prepare a working stock solution of approximately 1 mg/mL and let the lyophilized pellet dissolve completely.

Storage

Store lyophilized protein at -20°C . Aliquot reconstituted protein and store at -80°C . Avoid repeated freezing /thawing cycles.

Quality Control Test

BCA to determine quantity of the protein.
SDS PAGE to determine purity of the protein.

Applications

ELISA and Western blotting.

SDS-PAGE gel

