Recombinant Ubiquitin Like Modifier Activating Enzyme 5 (UBA5)(N-GST-6His)

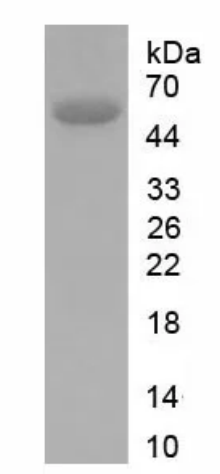
Catalog#:PEM23252

概述（Summary）

别称（Alternative Names）	UBE1DC1; ThiFP1; UFM1-activating enzyme; Ubiquitin-Activating Enzyme E1-Domain Containing 1; Ubiquitin-activating enzyme E1 domain-containing protein 1
纯度（Purity）	Greater than 90% as determined by reducing SDS-PAGE.
内毒素（Endotoxin level）	<1 EU/μg as determined by LAL test.
蛋白构建（Construction）	6His-GST-【Ala185-Met403】
Accession #	Q8VE47
表达宿主（Host）	E.coli
种属（Species）	Mus musculus (Mouse)
预测分子量（Predicted MW）	53.9 kDa
制剂（Form）	Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
运输方式（Shipping）	The product is shipped with ice bag. Upon receipt, store it immediately at the temperature listed below.
稳定性&储存（Stability &Storage）	12 months at -20°C to -80°C in lyophilized state.6 months at -20°C to -80°C under sterile conditions after reconstitution.7-10 days at 2°C to 8°C under sterile conditions after reconstitution.Please minimize freeze-thaw cycles.
复溶（Reconstitution）	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
背景介绍（References）	E1-like enzyme which specifically catalyzes the first step in ufmylation. Activates UFM1 by first adenylating its C-terminal glycine residue with ATP, and thereafter linking this residue to the side chain of a cysteine residue in E1, yielding a UFM1-E1 thioester and free AMP. Activates UFM1 via a trans-binding mechanism, in which UFM1 interacts with distinct sites in both subunits of the UBA5 homodimer. Trans-binding also promotes stabilization of the UBA5 homodimer, and enhances ATP-binding. Transfer of UFM1 from UBA5 to the E2-like enzyme

UFC1 also takes place using a trans mechanism. Ufmylation is involved in reticulophagy (also called ER-phagy) induced in response to endoplasmic reticulum stress. Ufmylation is essential for erythroid differentiation of both megakaryocytes and erythrocytes.

电泳图（SDS-PAGE image）



Greater than 90% as determined by reducing SDS-PAGE.

注意事项（Note）

For Research Use Only , Not for Diagnostic Use.