Rat ECM1 Protein (His Tag)

Catalog Number: 80574-R08H

General Information

Gene Name Synonym:
ECM1

Protein Construction:
A DNA sequence encoding the rat Ecm1 (NP_446334.1) (Met1-Glu562) was expressed with a polyhistidine tag at the C-terminus.

Source: Rat
Expression Host: Human Cells

QC Testing

Purity: > 95 % as determined by SDS-PAGE

Endotoxin:
< 1.0 EU per μg protein as determined by the LAL method.

Stability:
Samples are stable for up to twelve months from date of receipt at -70 °C.

Predicted N terminal: Ala 20

Molecular Mass:
The recombinant rat Ecm1 consists 554 amino acids and predicts a molecular mass of 62.9 kDa.

Formulation:
Lyophilized from sterile PBS, pH 7.4.

Usage Guide

Storage:
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:
Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:

Protein Description

Extracellular matrix protein 1 (ECM1) is a secreted glycoprotein and playing a pivotal role in endochondral bone formation, angiogenesis, and tumour biology. Three splice variants have been identified: ECM1a (540 aa) is most widely expressed, with highest expression in the placenta and heart; ECM1b (415 aa) is differentiation-dependent expressed and found only in tonsil and associated with suprabasal keratinocytes; ECM1c (559 aa) accounts for approximately 15% of skin ECM1. Although ECM1 is not tumor specific, is significantly elevated in many malignant epithelial tumors and is suggested as a possible trigger for angiogenesis, tumor progression and malignancies. It also has been shown to regulate endochondral bone formation, skeletal development and tissue remodeling.

References