Recombinant Mouse SNED1

Catalog Number: 9335-SN

DESCRIPTION

Source	Chinese Hamster Ovary cell line, CHO-derived Arg23-Lys1403, with a C-terminal 6-His tag Accession # Q70E20
N-terminal Sequence Analysis	Leu28
Predicted Molecular Mass	150 kDa

SPECIFICATIONS

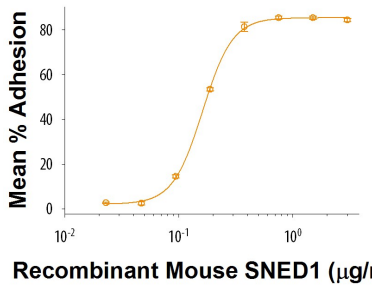
SDS-PAGE	135-230 kDa, reducing conditions
Activity	Measured by the ability of the immobilized protein to support the adhesion of CCD-1070Sk human normal skin fibroblasts. The ED_{50} for this effect is 0.1-0.4 µg/mL
Endotoxin Level	<0.10 EU per 1 µg of the protein by the LAL method.
Purity	>85%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS. See Certificate of Analysis for details.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 500 µg/mL in PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 3 months, -20 to -70 °C under sterile conditions after reconstitution.

DATA

Bioactivity



Immobilized Recombinant Mouse SNED1 (Catalog # 9335-SN) supports the adhesion of CCD-1070Sk human normal skin fibroblasts The ED_{50} for this effect is 0.1-0.4 µg/mL.

BACKGROUND

SNED1 (Sushi, nidogen and EGF-like domain-containing protein 1), also known as stromal nidogen extracellular matrix protein (Snep) and secreted protein SST-3, is an approximately 150 kDa protein (1). Mature mouse SNED1 contains 1379 aa that includes a Sushi/CCP (complement control protein) domain, an NIDO domain, 15 EGF-like domains, and 3 fibronectin type-III domains (1). Mouse SNED1 shares 84% and 96% aa sequence identity with human and rat SNED1, respectively. Alternative splicing generates an isoform lacking the Sushi/CCP domain, normally found in the center of the protein. SNED1 is mainly expressed in kidney stromal cells, but can be found in mesenchymal cells of other embryonic tissues, and within the nervous system (1,2). SNED1 has been found to have a role in tumor progression and metastasis. Studies show that SNED1 is up-regulated in highly metastatic mammary tumors while it is found to have relatively lower expression levels in poorly metastatic mammary tumors (3). SNED1 has also been shown to be up-regulated in pancreatic ductal adenocarcinoma cells which correlates with an increased chemoresistance (4). Additionally, SNED1 is found to be expressed specifically in stroma cells of the kidney and other organs in areas that undergo apoptosis during embryonic development making it important for kidney development (1).

References:

1. Leimeister, C. *et al.* (2004) Developmental Dynamics. **230**:371.
2. Ueno, H. *et al.* (2003) Nature Immunology. **4**:457.
3. Naba, A. *et al.* (2014) eLife. **3**:e01308.
4. Longati, P. *et al.* (2013) BMC Cancer. **13**:95.

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