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Product Information

MemDX™ Recombinant Mouse Bnip3 Membrane Protein in Virus-Like Particles (MP-VLPs)

Cat. No.: **S01YF-0622-KX54**
This product is for research use only and is not intended for diagnostic use.

This product is recombinant Mouse Bnip3 in VLPs form. This product is produced from HEK293 by co-expressing the retroviral structural core polyprotein (gag) and the target membrane protein. MP-VLPs display highly-expressed copies of membrane proteins in their native conformation, providing an alternative to membrane protein stable cell lines, membrane preparations, detergent-solubilized proteins and other membrane protein preparation strategies. MP-VLPs can be used for a wide range of applications in antibody production, antibody discovery, antibody characterization, binding assays and functional assays.

Product Specifications

Host Species
Mouse

Target Protein
Bnip3

Protein Length
Full length

Protein Class
Receptor

TMD
1

Sequence
MSQSGEENLQGSWVELHFSNGNGSSVPASVSIYNGDMEKILLDAQHESGRSSSKSSHCDSPPRSQTPQDTNRAEIDSHSFGEKNS

Product Description

Application
ELISA; Antibody Production; Antibody Discovery; Antibody Characterization; Binding Assays; Functional Assays

Expression Systems
HEK293 expression system

Tag
10xHis tag at the C-terminus

Protein Format
Membrane Protein-Virus Like Particles (MP-VLPs)

Form

Liquid

Buffer

PBS, 6% Trehalose, pH 7.4

Storage

The product should be stored at -20°C or lower. Avoid freeze-thaw cycles.

Target

Target Protein

Bnip3

Full Name

BCL2/adenovirus E1B interacting protein 3

Introduction

Enables identical protein binding activity. Involved in several processes, including negative regulation of reactive oxygen species metabolic process; regulation of aerobic respiration; and regulation of mitochondrion organization. Acts upstream of or within several processes, including brown fat cell differentiation; intrinsic apoptotic signaling pathway; and toxin transport. Located in mitochondrial membrane and postsynaptic density. Is expressed in several structures, including central nervous system; embryo mesenchyme; gut; musculoskeletal system; and nasal epithelium. Orthologous to human BNIP3 (BCL2 interacting protein 3).

Alternative Names

Nip3; BCL2/adenovirus E1B 19 kDa protein-interacting protein 3; BCL2/adenovirus E1B 19 kDa-interacting protein 1, NIP3; BCL2/adenovirus E1B 19kDa-interacting protein 1, NIP3; BCL2/adenovirus E1B interacting protein 1, NIP3

Gene ID

12176

UniProt ID

O55003

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