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Datasheet for ABIN7274753

Osteoactivin Protein (GPNMB) (AA 23-486) (His tag)

2 Images

Overview

Quantity:	100 µg
Target:	Osteoactivin (GPNMB)
Protein Characteristics:	AA 23-486
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Osteoactivin protein is labelled with His tag.

Product Details

Purpose:	Human Osteoactivin/GPNMB Protein
Sequence:	Lys23-Asn486
Characteristics:	Recombinant Human Osteoactivin/GPNMB Protein is expressed from HEK293 with His tag at the C-Terminus.It contains Lys23-Asn486.
Purity:	> 95 % as determined by Tris-Bis PAGE,> 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.

Target Details

Target:	Osteoactivin (GPNMB)
Alternative Name:	Osteoactivin (GPNMB Products)

Target Details

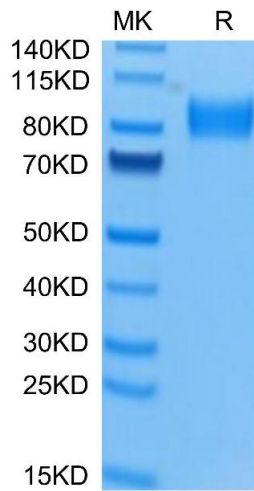
Background:	GPNMB is highly expressed in macrophages and microglia, which are cells involved with innate immune response in the periphery and the brain, respectively. Some studies have shown increased levels of GPNMB in pro-inflammatory conditions, such as LPS treatment, and in pathological conditions, such as neurodegenerative diseases and cancer.
Molecular Weight:	53.1 kDa. Due to glycosylation, the protein migrates to 78-98 kDa based on Tris-Bis PAGE result.
NCBI Accession:	NP_002501

Application Details

Restrictions:	For Research Use only
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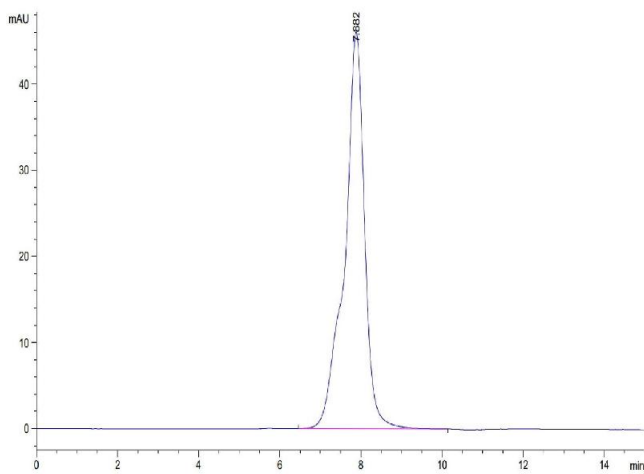
Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt.,-80°C for 3-6 months after reconstitution.,2-8°C for 2-7 days after reconstitution.,Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months



SDS-PAGE

Image 1. Human Osteoactivin on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 2. The purity of Human Osteoactivin is greater than 95 % as determined by SEC-HPLC.