

## Active Recombinant Human TMEM119 Protein, Fc tagged

Cat. No. TMEM119-12H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human TMEM119 Protein (Arg26-Met96) with Human IgG1 (Pro100-Lys330) Fc tag at C-terminus was expressed in Chinese Hamster Ovary cell line.
<b>Species</b>	Human
<b>Source</b>	CHO
<b>ProteinLength</b>	26-96 aa
<b>Description</b>	Involved in positive regulation of bone mineralization; positive regulation of osteoblast differentiation; and positive regulation of osteoblast proliferation. Located in plasma membrane.
<b>Source</b>	CHO
<b>Species</b>	Human
<b>Tag</b>	Fc
<b>Form</b>	Disulfide-linked homodimer
<b>Molecular Weight</b>	34 kDa
<b>Bio-Activity</b>	Measured by its ability to inhibit neurite outgrowth of E16-E18 rat embryonic cortical neurons. Recombinant Human TMEM119 Fc Chimera, immobilized at 2.5 µg/mL on a

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96 well plate, is able to significantly inhibit neurite outgrowth.

**N-terminal Sequence Analysis**

Arg26

**Endotoxin**

< 0.10 EU/μg of the protein by the LAL method.

**Purity**

> 95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie Blue Staining.

**Storage**

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.  
 12 months from date of receipt, -20 to -70 centigrade as supplied.  
 1 month, 2 to 8 centigrade under sterile conditions after reconstitution.  
 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.

**Storage Buffer**

Lyophilized from a 0.2 μm filtered solution in PBS.

**Reconstitution**

Reconstitute at 1 mg/mL in PBS.

**Shipping**

The product is shipped at ambient temperature.

**Reference**

1. Jiang, Z,H. et al. (2017) Expt & Mol Med. 49:e329.
2. Mizuhashi, K. et al. (2012) Dev. Growth Differ. 54:474.
3. Satoh, J. et al. (2016) Neuropathol. 36:39.

## GENE INFORMATION

**Gene Name**

TMEM119 transmembrane protein 119 [ Homo sapiens (human) ]

**Official Symbol**

TMEM119

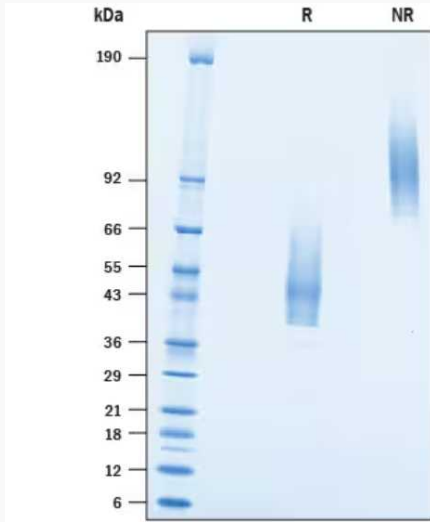
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<b>Synonyms</b>	TMEM119; transmembrane protein 119; OBIF; transmembrane protein 119; osteoblast induction factor
<b>Gene ID</b>	338773
<b>mRNA Refseq</b>	NM_181724
<b>Protein Refseq</b>	NP_859075
<b>MIM</b>	618989
<b>UniProt ID</b>	Q4V9L6

**SDS-PAGE**



2 µg/lane of Recombinant Human TMEM119 Fc Chimera was resolved with SDS-PAGE under reducing (R) and non-reducing (NR) conditions and visualized by Coomassie Blue staining, showing bands at 37-57 kDa and 70-110 kDa, respectively.

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