

# Product Information

## **MemDX™ Membrane Protein Human OXGR1 (Oxoglutarate receptor 1) Expressed *in vitro* *E.coli* expression system, Full Length**

Cat. No.: **MPX3370K**

This product is for research use only and is not intended for diagnostic use.

This product is a Human OXGR1 membrane protein expressed *in vitro* *E.coli* expression system. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

### Product Specifications

#### Host Species

Human

#### Target Protein

OXGR1

#### Protein Length

Full Length

#### Protein Class

GPCR

#### TMD

7

#### Sequence

MNEPLDYLANASDFPDYAAAFGNCTDENIPLKMHYLPVIYGIIFLVGFPGNAVVISTYIFKMRPWKSSTIIMLNACTDLLYLTSLPFLIH

### Product Description

#### Expression Systems

*in vitro* *E.coli* expression system

#### Tag

10xHis tag at the N-terminus

#### Protein Format

Soluble

#### Form

Liquid or Lyophilized powder

#### Buffer

Tris/PBS-based buffer, 6% Trehalose, pH 8.0

### Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

### Target

#### Target Protein

OXGR1

#### Full Name

Oxoglutarate receptor 1

#### Introduction

This gene encodes a G protein-coupled receptor (GPCR) that belongs to the oxoglutarate receptor family within the GPCR superfamily. The encoded protein is activated by the citric acid intermediate, oxoglutarate, as well as several cysteinyl leukotrienes, including leukotrienes E4, C4 and D4, which are implicated in many inflammatory disorders. In mice, a knock-out of this gene leads to middle ear inflammation, changes in the mucosal epithelium, and an increase in fluid behind the eardrum, and is associated with hearing loss. Alternative splicing results in multiple transcript variants.

#### Alternative Names

OXGR1; aKGR; GPR80; GPR99; P2Y15; P2RY15; G protein-coupled receptor 80; G-protein coupled receptor 99; P2Y purinoceptor 15; P2Y-like GPCR; P2Y-like nucleotide receptor; alpha-ketoglutarate receptor 1; oxoglutarate (alpha-ketoglutarate) receptor 1; Oxoglutarate receptor 1

#### Gene ID

[27199](#)

#### UniProt ID

[Q96P68](#)