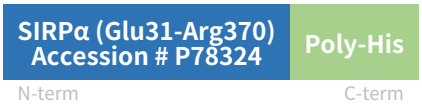
Rev03
Update: Dec,14,2021

DATASHEET

SIRPα, His, Human

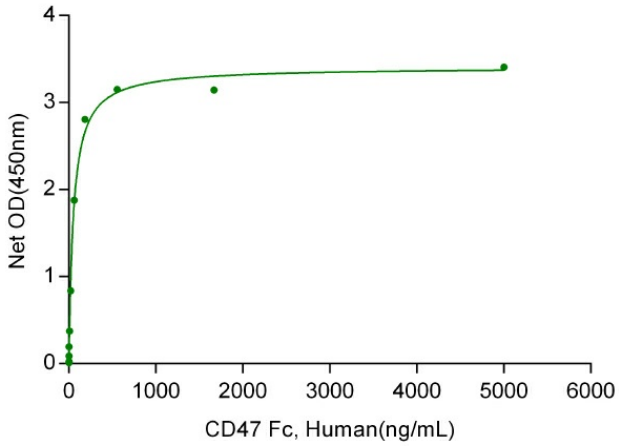
Cat. No.: Z03421

Product Introduction

Species	Human
Protein Construction	
Purity	> 95% as analyzed by SDS-PAGE
Endotoxin Level	< 0.2 EU/μg of protein by gel clotting method
Biological Activity	Immobilized SIRPa-His, Human at 2.0 μg/ml (100 μl/well), can bind CD47 Fc Chimera, Human (Cat. No.: Z03418) with a linear range of 0.25-185.0 ng/ml.
Expression System	HEK 293
Apparent Molecular Weight	50~55 kDa, on SDS-PAGE under reducing conditions.
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS, 5% trehalose and mannitol.
Reconstitution	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH_2O or PBS up to 100 μg/ml.
Storage & Stability	Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

Examples

GenScript USA, Inc.
860 Centennial Ave. Piscataway, NJ 08854
Tel: 1-732-885-9188



Immobilized SIRPa-His, Human(Cat.No.Z03418) at 2 μg/mL (100 μl/well), can bind CD47 Fc Chimera, Human (Z03418) with a linear range of 0.25-185 ng/mL.

Background

Target Background : Signal regulatory protein alpha (SIRPα, designated CD172a), is also known as CD172 antigen-like family member A (CD172a), also called SHPS-1 (SHP substrate 1) and previously, MyD-1 (Myeloid/Dendritic-1), which is a monomeric about 90kDa type I transmembrane glycoprotein that belongs to the SIRP/SHPS (CD172) family of the immunoglobulin superfamily. SIRPα is Ubiquitous and highly expressed in brain. SIRPA/CD172a is immunoglobulin-like cell surface receptor for CD47 and acts as docking protein and induces translocation of PTPN6, PTPN11 and other binding partners from the cytosol to the plasma membrane. SIRPA/SHPS-1 supports adhesion of cerebellar neurons, neurite outgrowth and glial cell attachment and may play a key role in intracellular signaling during synaptogenesis and in synaptic function by similarity. SIRPα recognition of surfactants SP-A and SP-D in the lung can inhibit alveolar macrophage cytokine production.

Synonyms : CD172 antigen-like family member A; CD172a antigen; CD172a

For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.