

CX3CR1 Protein-VLP, Human, Recombinant (Flag & Strep)

General Information

Synonyms:	CMKBRL1;V28;CMKDR1;GPRV28;GPR13;CX3CR1;CCRL1
Protein Construction:	A DNA sequence encoding the Human CX3CR1-VLP (P49238) (Met1-Leu315,thermostabilizing mutations) was expressed, with a Flag tag at the N-terminus, and a strep tag at the C-terminus.
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P49238
Molecular Weight:	40.4 kDa (predicted)

QC Testing

Biological Activity:	Immobilized CX3CR1 Protein-VLP, Human, Recombinant (Flag & Strep)) (Cat#TMPY-07102) at 5 µg/mL (100 µL/well) can bind Anti-CX3CR1 Monoclonal antibody, heavy chain antibody, Human IgG1, the EC50 is 0.5-5 ng/mL.
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Supplied as sterile 50 mM Hepes, 150 mM NaCl, 10% Trehalose, pH 7.2. Please contact us for any concerns or special requirements. Please refer to the specific buffer information in the hardcopy of datasheet or the lot-specific COA.

Preparation and Storage

Stability & Storage:

Samples are stable for up to twelve months from date of receipt at -70°C. Store it under sterile conditions at -70°C or lower. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein Background

The CX3C chemokine axis consists of fractalkine (CX3CL1) and its receptor (CX3CR1); these are expressed by neurons and microglia respectively, and are known to modulate microglial activation. Neuronal Cx3cr1 may impact Alzheimer's disease-like pathology by modulating conformational state-dependent amyloid-beta-induced synaptotoxicity. Microglial cells participate in brain development and influence neuronal loss and synaptic maturation. Fractalkine is an important neuronal chemokine whose expression increases during development and that can influence microglia function via the fractalkine receptor, CX3CR1. Mice lacking Cx3cr1 show a variety of neuronal defects thought to be the result of deficient microglia function. Knockout of the microglial chemokine receptor Cx3cr1 to prevent neuron loss.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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