

Fractalkine/CX3CL1 Protein, Cynomolgus/Rhesus Macaque (HEK293, His)

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| Cat. No.: | HY-P76939 |
| Synonyms: | Fractalkine; C-X3-C motif chemokine 1; Neurotactin; CX3CL1; FKN; NTT; SCYD1 |
| Species: | Rhesus Macaque |
| Source: | HEK293 |
| Accession: | P78423 (M1-G100) |
| Gene ID: | 6376 |
| Molecular Weight: | Approximately 10.1 kDa. |

PROPERTIES

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| Appearance | Lyophilized powder. |
| Formulation | Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. |
| Endotoxin Level | <1 EU/µg, determined by LAL method. |
| Reconstitution | It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. |
| Storage & Stability | Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage. |
| Shipping | Room temperature in continental US; may vary elsewhere. |

DESCRIPTION

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| Background | Fractalkine/CX3CL1 is a chemokine that serves as a ligand for both CX3CR1 and integrins ITGAV:ITGB3 and ITGA4:ITGB1. Its signaling through the CX3CR1-CX3CL1 pathway plays various roles in different tissue compartments, including immune response, inflammation, cell adhesion, and chemotaxis. It regulates leukocyte adhesion and migration at the endothelium and can activate integrins in both a CX3CR1-dependent and CX3CR1-independent manner. In the presence of CX3CR1, it activates integrins by binding to the classical ligand-binding site (site 1), while in the absence of CX3CR1, it binds to a second site (site 2) in integrins that is distinct from site 1 and enhances the binding of other integrin ligands to site 1. The soluble form of Fractalkine/CX3CL1 acts as a chemotactic factor for T-cells and monocytes but not neutrophils. |
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Caution: Product has not been fully validated for medical applications. For research use only.

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