# Recombinant ONCM protein (His tag)

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| **Catalog Number** | 542131 |
| **Synonyms** | OSM |
| **Species** | Human |
| **Expression System** | E. coli |
| **Accession** | P13725 |
| **Molecular Weight** | Predictes a molecular mass of 22.82 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 23 kDa band. |

## Product Information

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| **Sequence Region** | 26-213 |
| **Form** | Lyophilized powder |
| **Formulation** | Lyophilized from sterile PBS, pH 7.4 |
| **Purity** | >85%, by SDS-PAGE with Coomassie Brilliant Blue staining. |
| **Endotoxin** | Not tested. |
| **Activity** | Not tested. |
| **Stability** | Samples are stable for up to twelve months from date of receipt at -70℃ |
| **Protein Construction** | DNA encoding 26-213 aa (P13725) were fused with 6His tag. |

## Storage & Handling

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| **Reconstitution** | Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. |
| **Storage** | Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. |
| **Shipping** | In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature.<br>Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise. |

## Description

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| **Description** | Recombinant Human Oncostatin-M (OSM) Fragment (aa 26-213) is a high-quality protein product designed for structural and biochemical research. This 188-amino acid fragment represents a stable and soluble unit of OSM, optimized for studies on its role as a growth regulator and cytokine modulator.<br>Oncostatin-M (OSM) is a secreted cytokine that functions as a growth regulator, inhibiting proliferation in various tumor cell lines while stimulating AIDS-Kaposi's sarcoma cells. It plays a key role in regulating cytokine production—including IL-6, G-CSF, and GM-CSF—from endothelial cells and is involved in liver development and regeneration through its action on fetal hepatocytes. OSM signals via both type I (LIFR/IL6ST) and type II (OSMR/IL6ST) receptor complexes, underscoring its importance in cellular signaling and developmental processes. |