

Human SCF Recombinant Protein, PeproTech®

Product Details

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| Size | 50 µg |
| Species | Human |
| Published Species | Rabbit, Pig, Rat, Non-human primate, Virus, Bovine, Hamster, Human, Mouse |
| Expression system | E. coli |
| Amino acid sequence | MEGICRNRVT NNVKDVTKLV ANLPKDYMIT LKYVPGMDVL PSHCWISEMV VQLSDSLTDL LDKFSNISEG LSNYSIIDKL VNIVDDLVEC VKENSSKDLK KSFKSPEPRL FTPEEFFRIF NRSIDAFKDF VVASETSDCV VSSTLSPEKD SRVSVTKPFM LPPVA |
| Molecular weight | 18.4 kDa |
| Class | Recombinant |
| Type | Protein |
| Purity | 98% by SDS-PAGE gel and HPLC analyses. |
| Endotoxin concentration | <1 EU/µg |
| Activity | The ED50 as determined by the dose-dependent stimulation of the proliferation of human TF-1 cells is 2.0 ng/ml, corresponding to a specific activity of 5 x 10 ⁵ units/mg. |
| Conjugate | Unconjugated |
| Form | Lyophilized |
| Purification | purified |
| Contains | no preservative |
| Storage conditions | -20°C |

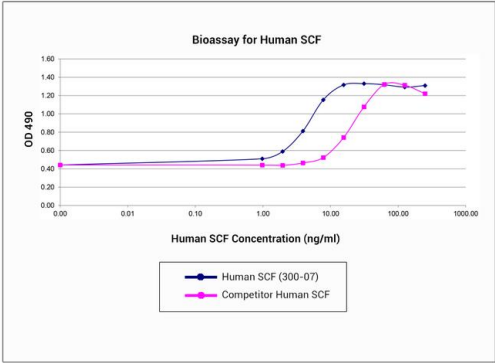
| Applications | Tested Dilution | Publications |
|-------------------------------|-----------------|------------------|
| Western Blot (WB) | Assay-dependent | - |
| Flow Cytometry (Flow) | - | 1 Publication |
| ELISA (ELISA) | Assay-dependent | - |
| Functional Assay (Functional) | Assay-dependent | - |
| In vitro Assay (IV) | - | 511 Publications |
| Miscellaneous PubMed (Misc) | - | 51 Publications |

Product Specific Information

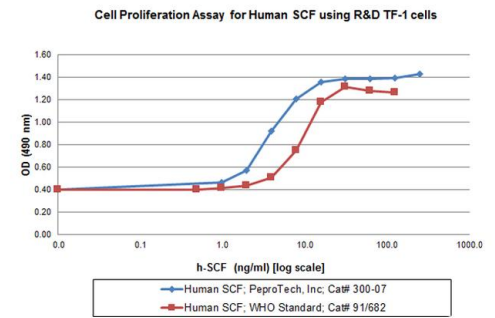
Recombinant Human SCF is an 18.4 kDa polypeptide containing 165 amino acid residues, which corresponds to the sequence of the secreted soluble form of SCF.

This product is shipped at ambient temperature. For storage, handling and reconstitution information, please see the lot-specific Certificate of Analysis

Product Images For Human SCF Recombinant Protein, PeproTech®



Human SCF Protein (300-07-50UG) in Functional
Bioassay analysis of Human SCF Recombinant Protein, PeproTech® (Product # 300-07-1MG).



Human SCF Protein (300-07-50UG) in Functional
WHO Comparison of Human SCF Recombinant Protein, PeproTech® (Product # 300-07-1MG).

Flow Cytometry (1)

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| Oncoimmunology | Year 2021 |
| Antigen receptor-redirected T cells derived from hematopoietic precursor cells lack expression of the endogenous TCR/CD3 receptor and exhibit specific antitumor capacities. | Species Human |
| "300-07 was used in Flow cytometry/Cell sorting to show that cord blood hematopoietic progenitor cells generate allogeneic CD3-antigen receptor (AR)+T cells which effectively eliminate malignant cells and limit graft versus host disease occurrence." | |
| Authors: Van Caeneghem Y,De Munter S,Tieppo P,Goetgeluk G,Weening K,Verstichel G,Bonte S,Taghon T,Leclercq G, Kerre T,Debets R,Vermijlen D,Abken H,Vandekerckhove B | |

In vitro Assay (511)

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| Cell death & disease | Year 2024 |
| Venetoclax triggers sublethal apoptotic signaling in venetoclax-resistant acute myeloid leukemia cells and induces vulnerability to PARP inhibition and azacitidine. | Species Human |
| "300-07 was used in Cell Culture to identify a new vulnerability in acquired venetoclax-resistant AML cells and identify PARP inhibition as a potential therapeutic approach to overcome acquired venetoclax resistance in AML." | |
| Authors: Tambe M,Unterberger S,Kriegbaum MC,Vänttinen I,Olgac EJ,Vähä-Koskela M,Kontro M,Wennerberg K, Heckman CA | |

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| iScience | Year 2024 |
| Decoding human bone marrow hematopoietic stem and progenitor cells from fetal to birth. | Species Mouse |
| "300-07 was used in Cell Culture to elucidate the dynamics of fetal hematopoiesis in preparation for birth, offering valuable insights into the pathological processes underlying leukemia." | |
| Authors: Xie X,Gou F,Zheng Z,Zhang Y,Zhang Y,Dong F,Cheng T,Cheng H | |

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Miscellaneous PubMed (51)

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|---|------------------|
| iScience | Year 2022 |
| Targeting histone methylation to reprogram the transcriptional state that drives survival of drug-tolerant myeloid leukemia persists. | Species Human |
| "300-07 was used in Cell Culture to reveal plasticity of anthracycline resistance in AML cells and highlight the potential of transcriptional reprogramming by epigenetic-based therapeutics to target chemotherapy-resistant AML cells." | |
| Authors: van Gils N,Verhagen HJMP,Broux M,Martíáñez T,Denkers F,Vermue E,Rutten A,Csikós T,Demeyer S,Çil M,Al M,Cools J,Janssen JJWM,Ossenkoppele GJ,Menezes RX,Smit L | |

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