Human R-Spondin 1 Recombinant Protein, PeproTech®

Product Details	
Size	5 µg
Species	Human
Published Species	Dog, Pig, Bovine, Human, Mouse, Xenopus
Expression system	CHO cells
Amino acid sequence	SRGIKGKRQR RISAEGSQAC AKGCELCSEV NGCLKCSPKL FILLERNDIR QVGVCLPSCP PGYFDARNPD MNKCIKCKIE HCEACFSHNF CTKCKEGLYL HKGRCYPACP EGSSAANGTM ECSSPAQCEM SEWSPWGPCS KKQQLCGFRR GSEERTRRVL HAPVGDHAAC SDTKETRRCT VRRVPCPEGQ KRRKGGQGRR ENANRNLARK ESKEAGAGSR RRKGQQQQQQ QGTVGPLTSA GPA
Molecular weight	26.7 kDa
Class	Recombinant
Type	Protein
Purity	95% by SDS-PAGE gel and HPLC analyses.
Endotoxin concentration	<1 EU/µg
Activity	R-Spondin-1 enhances BMP-2-mediated differentiation of MC3T3-E1 cells. The expected ED50 is 1.0-3.0 ug/ml.
Conjugate	Unconjugated
Form	Lyophilized
Purification	purified
Contains	no preservative
Storage conditions	-20°C

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Functional Assay (Functional)	Assay-dependent	-
In vitro Assay (IV)	-	59 Publications
Miscellaneous PubMed (Misc)	-	18 Publications

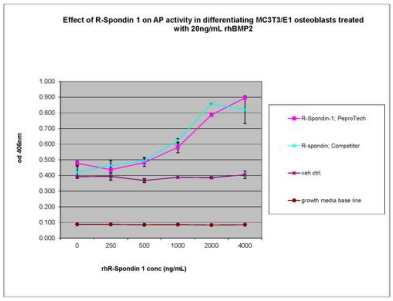
Product Specific Information

120-38-1MG will be provided as 2 x 500 µg (120-38-500UG).

Recombinant Human R-Spondin-1 is a 26.7 kDa protein consisting of 243 amino acid residues. Due to glycosylation, R-Spondin-1 migrates at an apparent molecular weight of approximately 40.0 kDa by SDS-PAGE analysis under reducing conditions.

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 R-Spondin 1 Recombinant Protein, PeproTech®



Human R-Spondin 1 Protein (120-38-5UG) in Functional
Bioassay analysis of Human R-Spondin 1 Recombinant Protein, PeproTech® (Product # 120-38-1MG).

78 References

Immunohistochemistry (1)

Frontiers in cellular and infection microbiology

Human Organotypic Airway and Lung Organoid Cells of Bronchiolar and Alveolar Differentiation Are Permissive to Infection by Influenza and SARS-CoV-2 Respiratory Virus.

"120-38 was used in Immunohistochemistry to investigate virulent affects of SARS-CoV-2 mutations on organoid models."

Authors: Ekanger CT,Zhou F,Bohan D,Lotsberg ML,Ramnefjell M,Hoareau L,Røsland GV,Lu N,Aanerud M,Gärtner F, Salminen PR,Bentsen M,Halvorsen T,Ræder H,Akslen LA,Langeland N,Cox R,Maury W,Stuhr LEB,Lorens JB, Engelsen AST

Year
2022

Species
Human

In vitro Assay (59)

iScience

Secretion of WNT7A by UC-MSCs assist in promoting the endometrial epithelial regeneration.

"120-38 was used in In vitro experiments to design an extracellular matrix (ECM)-adhesion mimic hydrogel for intrauterine administration, which was more effective than direct injection in treating intrauterine adhesions."

Authors: Liu F,Lin Q,Shen S,Li Z,Xie X,Cheng Q,Wang L,Long Y,Wang J,Liu L

Year
2024

Species
Human

Nature communications

Physiological DNA damage promotes functional endoreplication of mammary gland alveolar cells during lactation.

"120-38 was used in Tissue/organ culture to show that DNA damage accumulates due to replication stress during pregnancy, activating the DNA damage response."

Authors: Molinuevo R,Menendez J,Cadle K,Ariqat N,Choy MK,Lagousis C,Thomas G,Strietzel C,Bubolz JW,Hinck L

Year
2024

Species
Mouse

View more IV references on thermofisher.cn

Miscellaneous PubMed (18)

Lab on a chip

Establishment of physiologically relevant oxygen gradients in microfluidic organ chips.

"120-38 was used in Sample Preparation to describe a simple strategy which recapitulates in vivo functionality to achieve physiologically relevant oxygen tension in a two-channel human small intestine-on-a-chip (Intestine Chip) lined with primary human duodenal epithelium and intestinal microvascular endothelium in parallel channels separated by a porous membrane while both channels are perfused with oxygenated medium."

Authors: Grant J,Lee E,Almeida M,Kim S,LoGrande N,Goyal G,Sesay AM,Breault DT,Prantil-Baun R,Ingber DE

Year
2022

Species
Human

View more Misc references on thermofisher.cn

More applications with references on thermofisher.cn