

Human alpha-1 PDX Recombinant Protein

| Product Details | |
|--------------------|---|
| Size | 2.5 mg |
| Species | Human |
| Published Species | Human |
| Expression System | E. coli |
| Molecular weight | 46.7 kDa |
| Class | Recombinant |
| Type | Protein |
| Purity | >80% |
| Activity | For furin inhibition assays, cells should be treated with 8.0 - 20 μ M human alpha-1 PDX recombinant protein for 1 hour. For in vitro assays, 0.1 - 2.0 μ M human alpha-1 PDX recombinant protein should be used. |
| Conjugate | Unconjugated |
| Form | Lyophilized |
| Concentration | 2.5 mg/mL |
| Purification | purified |
| Storage buffer | PBS, pH 7.2 |
| Contains | no preservative |
| Storage conditions | 4° C, do not freeze |

| Applications | Tested Dilution | Publications |
|-----------------------------|------------------------------|----------------|
| Neutralization (Neu) | - | 1 Publication |
| Control (Ctrl) | Assay-dependent | - |
| Inhibition Assays (IA) | Cell studies, 8.0-20 μ M | - |
| Miscellaneous PubMed (Misc) | - | 3 Publications |

Product Specific Information

RP-070 was obtained from E. coli transformed with the alpha1-PDX gene. RP-070 can be used in furin inhibition assays. For furin inhibition assays, cells should be treated with 8.0-20 μ M alpha1-PDX for 1 hour (see above references). For in vitro assays, 0.1-2.0 μ M alpha1-PDX should be used. Purity: >80% (most lots are 80-95%) NOTE: Freezing this product may result in damage of the protein. NOTE: Once rehydrated, this protein retains optimal reactivity for 2-4 days at 4 degrees C. Longer storage time can be achieved by storing in a serum rich medium. RP-070 can be used for protein biochemical, intracellular trafficking, and protein kinetic assays.

Molecular weight is approximately 46.7 kDa.

4 References

Neutralization (1)

Proceedings of the National Academy of Sciences of the United States of America

alpha1-Antitrypsin Portland, a bioengineered serpin highly selective for furin: application as an antipathogenic agent.

"RP-070 was used in blocking/activating experiment to investigate the function and potential utility of a bioengineered serpin alpha1-Antitrypsin Portland"

Authors: Jean F,Stella K,Thomas L,Liu G,Xiang Y,Reason AJ,Thomas G

Species
Human

Dilution
78 nM

Year
1998

Miscellaneous PubMed (3)

Arteriosclerosis, thrombosis, and vascular biology

FURIN Inhibition Reduces Vascular Remodeling and Atherosclerotic Lesion Progression in Mice.

Authors: Yakala GK,Cabrera-Fuentes HA,Crespo-Avilan GE,Rattanasopa C,Burlacu A,George BL,Anand K,Mayan DC,Corlianò M,Hernández-Reséndiz S,Wu Z,Schwerk AMK,Tan ALJ,Trigueros-Motos L,Chèvre R,Chua T,Kleemann R,Liehn EA,Hausenloy DJ,Ghosh S,Singaraja RR

Species
Not Applicable

Dilution
Not Cited

Year
2019

Scientific reports

Proprotein convertase furin inhibits matrix metalloproteinase 13 in a TGF-dependent manner and limits osteoarthritis in mice.

Authors: Lin H,Hay E,Latourte A,Funck-Brentano T,Bouaziz W,Ea HK,Khatib AM,Richette P,Cohen-Solal M

Species
Not Applicable

Dilution
Not Cited

Year
2018

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