

pro-defensin alpha 5 is stored in Paneth cell granules

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19/05/2024

Introduction

Reactome is open-source, open access, manually curated and peer-reviewed pathway database. Pathway annotations are authored by expert biologists, in collaboration with Reactome editorial staff and cross-referenced to many bioinformatics databases. A system of evidence tracking ensures that all assertions are backed up by the primary literature. Reactome is used by clinicians, geneticists, genomics researchers, and molecular biologists to interpret the results of high-throughput experimental studies, by bioinformaticians seeking to develop novel algorithms for mining knowledge from genomic studies, and by systems biologists building predictive models of normal and disease variant pathways.

The development of Reactome is supported by grants from the US National Institutes of Health (P41 HG003751), University of Toronto (CFREF Medicine by Design), European Union (EU STRP, EMI-CD), and the European Molecular Biology Laboratory (EBI Industry program).

Literature references

Fabregat, A., Sidiropoulos, K., Viteri, G., Forner, O., Marin-Garcia, P., Arnau, V. et al. (2017). Reactome pathway analysis: a high-performance in-memory approach. *BMC bioinformatics*, 18, 142. [↗](#)

Sidiropoulos, K., Viteri, G., Sevilla, C., Jupe, S., Webber, M., Orlic-Milacic, M. et al. (2017). Reactome enhanced pathway visualization. *Bioinformatics*, 33, 3461-3467. [↗](#)

Fabregat, A., Jupe, S., Matthews, L., Sidiropoulos, K., Gillespie, M., Garapati, P. et al. (2018). The Reactome Pathway Knowledgebase. *Nucleic Acids Res*, 46, D649-D655. [↗](#)

Fabregat, A., Korninger, F., Viteri, G., Sidiropoulos, K., Marin-Garcia, P., Ping, P. et al. (2018). Reactome graph database: Efficient access to complex pathway data. *PLoS computational biology*, 14, e1005968. [↗](#)

Reactome database release: 88

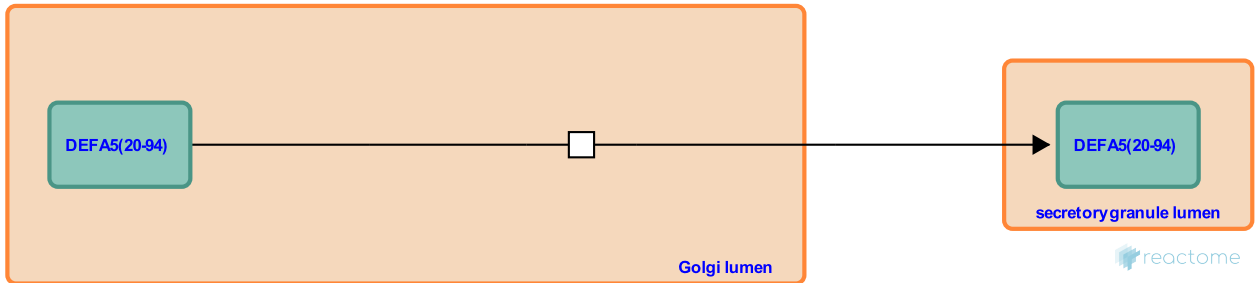
This document contains 1 reaction ([see Table of Contents](#))

pro-defensin alpha 5 is stored in Paneth cell granules ↗

Stable identifier: R-HSA-1461995

Type: transition

Compartments: secretory granule lumen, Golgi lumen



Pro-defensin alpha 5 is stored in the granules of Paneth cells in the small intestine (Porter et al. 1997). This pro-peptide has some antimicrobial activity but is not as effective as the mature peptide (Ghosh et al. 2002).

Literature references

Anton, PA., Ganz, T., Oren, A., Liu, L., Porter, EM. (1997). Localization of human intestinal defensin 5 in Paneth cell granules. *Infect Immun*, 65, 2389-95. ↗

Editions

2011-04-28	Authored	Jupe, S.
2011-07-27	Edited	Jupe, S.
2011-11-03	Reviewed	McDermott, AM.