



US005489670A

**United States Patent** [19]  
**Currie et al.**

[11] **Patent Number:** **5,489,670**  
[45] **Date of Patent:** **Feb. 6, 1996**

- [54] **HUMAN UROGUANYLIN**
- [75] Inventors: **Mark G. Currie**, St. Charles;  
**Toshihiro Kita**, Creve Coeur; **Kam F. Fok**, St. Louis; **Christine E. Smith**, Manchester, all of Mo.
- [73] Assignee: **G. D. Searle & Co.**, Chicago, Ill.
- [21] Appl. No.: **145,940**
- [22] Filed: **Oct. 29, 1993**
- [51] **Int. Cl.<sup>6</sup>** ..... **A61K 38/00**; C07K 5/00;  
C07K 7/00; C07K 4/00
- [52] **U.S. Cl.** ..... **530/326**
- [58] **Field of Search** ..... 530/326

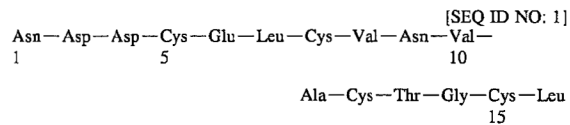
- [56] **References Cited**
- U.S. PATENT DOCUMENTS**
- 5,140,102 8/1992 Currie ..... 530/36

- OTHER PUBLICATIONS**
- Schulz et al., *Cell* 63: 941-948 (1985).
- Yoshimura et al., *FEBS Lett.* 181: 138-142 (1985).
- Currie et al., *Proc. Natl. Acad. Sci.* 89: 947-951 (1992).

- de Sauvage et al., *Proc. Natl. Acad. Sci.* 89: 9089-9093 (1992).
- Kuhn et al., *FEBS Lett.* 318: 205-209 (1993).
- Wiegand et al., *FEBS Lett.* 311: 150-154 (1992).
- Savarino et al., *Proc. Natl. Acad. Sci.* 90: 3093-3097 (1993).
- Wiegand et al., *Biochem. Biophys. Res. Commun.* 185: 812-817 (1992).
- Schulz et al., *J. Biol. Chem.* 267: 16019-16021 (1992).

*Primary Examiner*—Jill A. Warden  
*Assistant Examiner*—Sheela J. Huff  
*Attorney, Agent, or Firm*—Dennis A. Bennett

[57] **ABSTRACT**  
 A novel peptide is disclosed which is useful for the control of intestinal fluid absorption and that has the following amino acid sequence



**2 Claims, 4 Drawing Sheets**

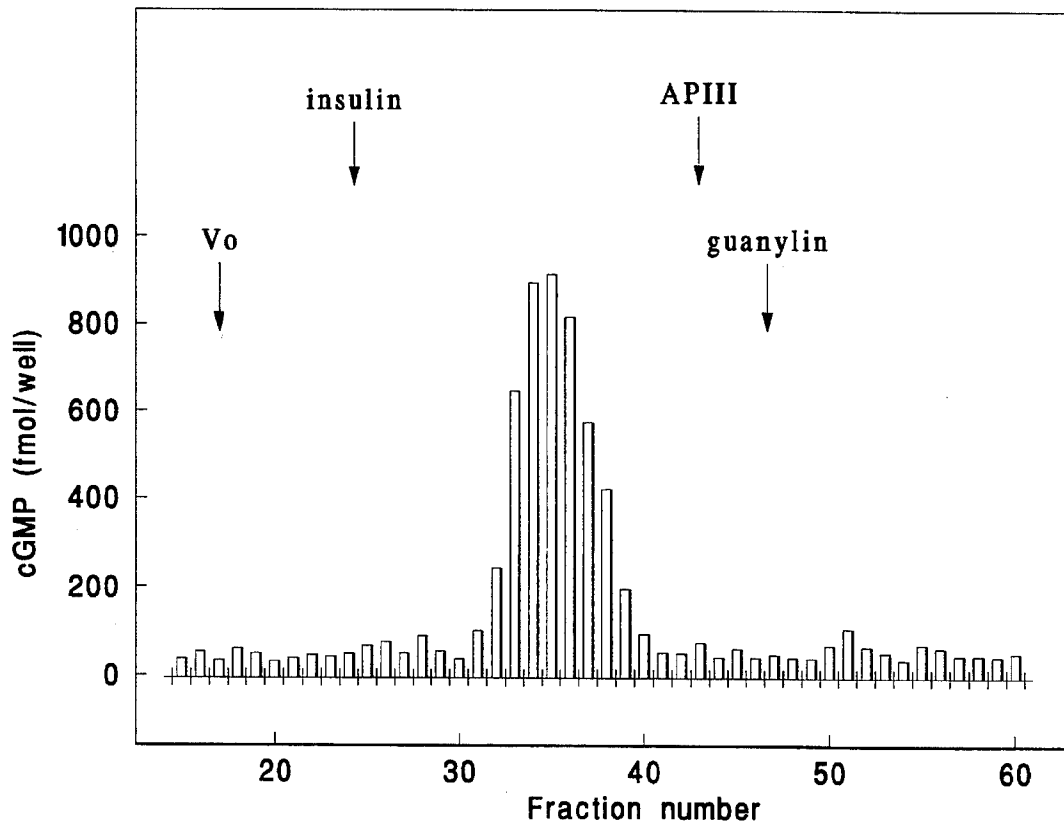


Fig. 1

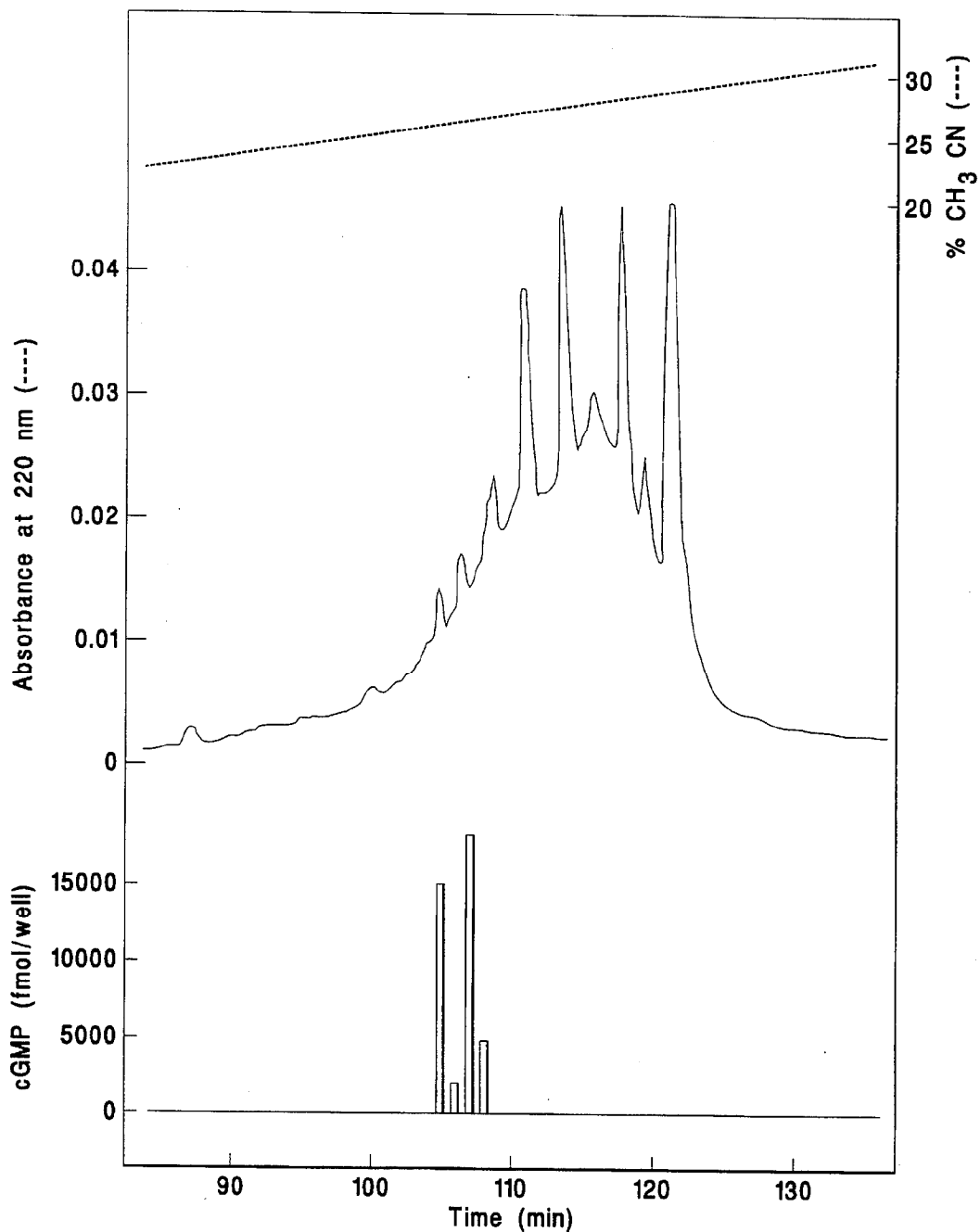


Fig. 2

MSN Exhibit 1005 - Page 3 of 9  
MSN v. Bausch - IPR2023-00016

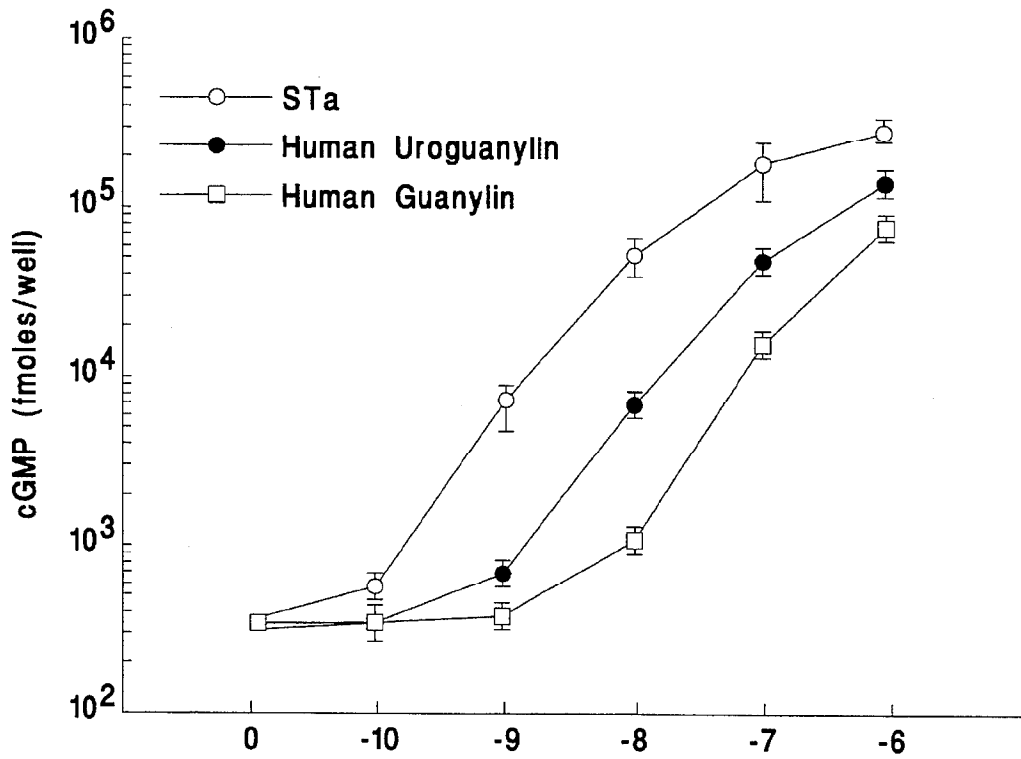


Fig. 3A

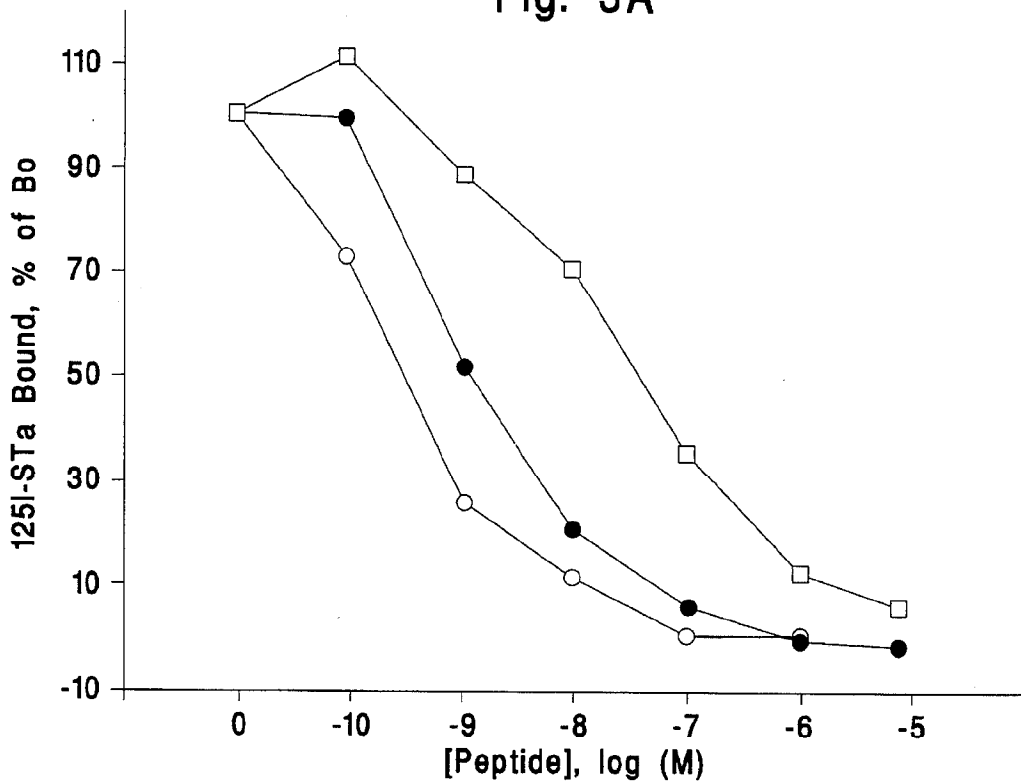


Fig. 3B

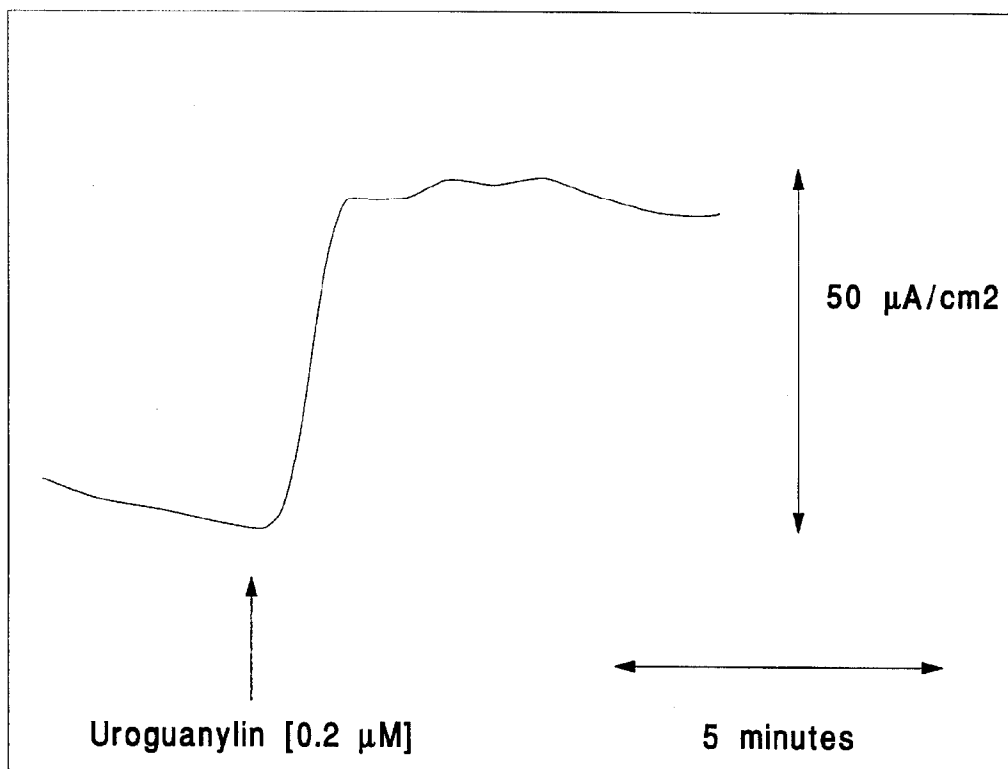


Fig. 4

MSN Exhibit 1005 - Page 5 of 9  
MSN v. Bausch - IPR2023-00016

# Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

## Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

## Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

## Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

## API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

## LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

## FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

## E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.