

Title (en)

SOLUTION AND CRYSTAL STRUCTURES OF ZipA AND ZipA COMPLEX AND USES THEREOF

Title (de)

LÖSUNG UND KRISTALLSTRUKTUREN VON ZIPa UND ZIPa-KOMPLEX SOWIE ANWENDUNGEN DAFÜR

Title (fr)

SOLUTION ET STRUCTURES CRISTALLINES DE ZIPA ET DE COMPLEXE DE ZIPA AINSI QUE LEURS UTILISATIONS

Publication

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Application

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Abstract (en)

[origin: WO0173436A1] The present invention relates to the three dimensional solution and crystal structures of the C-terminal domain of ZipA ("ZipA185-328"), as well as the three dimensional crystal structure of ZipA185-328 complexed with a C-terminal region of FtsZ. These structures are critical for the design and selection of potent and selective inhibitors of ZipA/FtsZ complex activity, particularly for use as antibiotic agents against Gram negative bacteria. Also provided by the present invention are the inhibitors identified using the three dimensional structures disclosed herein.

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Citation (search report)

- [PX] MOY F J ET AL: "Solution structure of ZipA, a crucial component of Escherichia coli cell division.", BIOCHEMISTRY. UNITED STATES 8 AUG 2000, vol. 39, no. 31, 8 August 2000 (2000-08-08), pages 9146 - 9156, XP009008635, ISSN: 0006-2960
- [PX] HALE C A ET AL: "ZipA-induced bundling of FtsZ polymers mediated by an interaction between C-terminal domains.", JOURNAL OF BACTERIOLOGY. UNITED STATES SEP 2000, vol. 182, no. 18, September 2000 (2000-09-01), pages 5153 - 5166, XP002236592, ISSN: 0021-9193
- See references of WO 0173436A1

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