

Title (en)  
INHIBITION OF APOPTOSIS USING PROSAPOSIN RECEPTOR AGONISTS

Title (de)  
APOPTOSEHEMMUNG DURCH PROSAPOSIN REZEPTORAGONISTEN

Title (fr)  
INHIBITION DE L'APOPTOSE AU MOYEN D'AGONISTES DU RECEPTEUR DE LA PROSAPOSINE

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Application  
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Abstract (en)  
[origin: WO9912559A1] A method for inhibiting caspase-mediated apoptosis by administering prosaposin receptor agonists is provided. Apoptosis has a major causative role in diseases such as rheumatoid arthritis, irritable bowel syndrome, congestive heart failure, multiple sclerosis, Alzheimer's disease, Parkinson's disease, myocardial infarction, and coronary ischemia.

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Citation (search report)  
• [XA] US 5571787 A 19961105 - O'BRIEN JOHN S [US], et al  
• [X] HIRAIWA ET AL: "CELL DEATH PREVENTION, MITOGEN-ACTIVATED PROTEIN KINASE STIMULATION, AND INCREASED SULFATIDE CONCENTRATIONS IN SCHWANN CELLS AND OLIGODENDROCYTES BY PROSAPOSIN AND PROSAPTIDES", PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA, NATIONAL ACADEMY OF SCIENCE. WASHINGTON, US, vol. 94, April 1997 (1997-04-01), pages 4778 - 4781, XP002135051, ISSN: 0027-8424  
• [XY] HOZUMI I ET AL: "Amelioration of spatial learning impairment and neuronal loss in rats with stab wounds by prosaposin.", JOURNAL OF NEUROCHEMISTRY, vol. 69, no. SUPPL., 1997, Joint Sixteenth Biennial Meeting of the International Society for Neurochemistry and Twenty-eighth Annual Meeting of the American Society for Neurochemistry; Boston, Massachusetts, USA; July 20-26, 1997, pages S249, XP009008631, ISSN: 0022-3042  
• [YA] CAMPANA W M ET AL: "Prosaptide, a peptide derived from prosaposin, induces motor endplate sprouting and prevents taxol neuropathy.", SOCIETY FOR NEUROSCIENCE ABSTRACTS, vol. 21, no. 1-3, 1995, 25th Annual Meeting of the Society for Neuroscience; San Diego, California, USA; November 11-16, 1995, pages 554, XP009008629, ISSN: 0190-5295  
• [XP] TAYLOR E M ET AL: "Prosaposin and prosaptide prevent TNF-alpha-induced cell death in NS20Y and CG4 cells.", SOCIETY FOR NEUROSCIENCE ABSTRACTS, vol. 23, no. 1-2, 1997, 27th Annual Meeting of the Society for Neuroscience; New Orleans, Louisiana, USA; October 25-30, 1997, pages 2226, XP009008626, ISSN: 0190-5295  
• [XP] TSUBOI K ET AL: "Prosaposin and prosaptide can prevent programmed cell death of rat cerebellar granule neurons.", SOCIETY FOR NEUROSCIENCE ABSTRACTS, vol. 23, no. 1-2, 1997, 27th Annual Meeting of the Society for Neuroscience; New Orleans, Louisiana, USA; October 25-30, 1997, pages 1439, XP009008627, ISSN: 0190-5295  
• [XP] TSUBOI K ET AL: "PROSAPOSIN PREVENTS PROGRAMMED CELL DEATH OF RAT CEREBELLAR GRANULE NEURONS IN CULTURE", DEVELOPMENTAL BRAIN RESEARCH, ELSEVIER SCIENCE BV, AMSTERDAM, NL, vol. 110, no. 2, 1998, pages 249 - 255, XP000915816, ISSN: 0165-3806  
• [PX] WAGNER ROCHELLE ET AL: "Prosaptide prevents hyperalgesia and reduces peripheral TNFR1 expression following TNF-alpha nerve injection.", NEUROREPORT, vol. 9, no. 12, 24 August 1998 (1998-08-24), pages 2827 - 2831, XP009008642, ISSN: 0959-4965  
• [T] OTERO DEBORAH A C ET AL: "Reversal of thermal hyperalgesia in a rat partial sciatic nerve ligation model by Prosaptide(R) TX14(A).", NEUROSCIENCE LETTERS, vol. 270, no. 1, 23 July 1999 (1999-07-23), pages 29 - 32, XP002238179, ISSN: 0304-3940  
• [T] YAN LIZHEN ET AL: "Prosaptide<sup>TM</sup> D5 reverses hyperalgesia: Inhibition of calcium channels through a pertussis toxin-sensitive G-protein mechanism in the rat.", NEUROSCIENCE LETTERS, vol. 278, no. 1-2, 7 January 2000 (2000-01-07), pages 120 - 122, XP002238180, ISSN: 0304-3940  
• [T] YAN L ET AL: "A 14-mer prosaptide activates a G-protein receptor and diminishes calcium flux in synaptosomes.", SOCIETY FOR NEUROSCIENCE ABSTRACTS, vol. 24, no. 1-2, 1998, 28th Annual Meeting of the Society for Neuroscience, Part 1; Los Angeles, California, USA; November 7-12, 1998, pages 805, XP009009360, ISSN: 0190-5295  
• See references of WO 9912559A1

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