

Title (en)  
TRANS-MEMBRANE-ANTIBODY INDUCED INHIBITION OF APOPTOSIS

Title (de)  
TRANS-MEMBRAN-ANTIKÖRPER-INDUZIERTE APOPTOSE-HEMMUNG

Title (fr)  
INHIBITION D'APOPTOSE INDUITE PAR UN ANTICORPS TANSMEMBRANAIRE

Publication  
**EP 1605893 A4 20080813 (EN)**

Application  
**EP 04718110 A 20040305**

Priority  
• US 2004006911 W 20040305  
• US 45198003 P 20030305

Abstract (en)  
[origin: WO2004078146A2] Cell suicide (apoptosis) is associated with pathogenesis, for example, it is the major cause for the loss of neurons in Alzheimer's disease. Caspase-3 is critically involved in the pathway of apoptosis. Superantibody (SAT)-trans-membrane technology has been used to produce antibodies against the caspase enzyme in an effort to inhibit apoptosis in living cells. The advantage of using trans-membrane antibodies as apoptosis inhibitors is their specific target recognition in the cell and their lower toxicity compared to conventional apoptosis inhibitors. It is shown that a MTS-transport-peptide modified monoclonal anti-caspase-3 antibody reduces actinomycin D-induced apoptosis and cleavage of spectrin in living cells. These results indicate that antibodies conjugated to a membrane transporter peptide have a therapeutic potential to inhibit apoptosis in a variety of diseases.

IPC 1-7  
**C07K 16/00**; **C07K 16/28**; **A61K 39/395**; **A61K 39/44**; **A61K 51/10**; **G01N 33/533**; **G01N 33/541**; **G01N 33/554**

IPC 8 full level  
**A61K 6/00** (2006.01); **A61K 38/10** (2006.01); **A61K 39/104** (2006.01); **A61K 39/395** (2006.01); **A61K 47/42** (2006.01); **A61K 47/48** (2006.01); **A61K 51/10** (2006.01); **C07K 7/08** (2006.01); **C07K 16/40** (2006.01); **C07K 16/42** (2006.01); **C07K 19/00** (2006.01); **G01N 33/566** (2006.01)

IPC 8 main group level  
**A61K** (2006.01)

CPC (source: EP KR)  
**A61K 39/395** (2013.01 - KR); **A61P 31/04** (2017.12 - EP); **A61P 31/12** (2017.12 - EP); **A61P 31/18** (2017.12 - EP); **A61P 35/00** (2017.12 - EP); **C07K 16/00** (2013.01 - KR); **C07K 16/40** (2013.01 - EP); **C07K 16/4266** (2013.01 - EP); **A61K 2039/505** (2013.01 - EP); **C07K 2317/76** (2013.01 - EP); **C07K 2317/77** (2013.01 - EP); **C07K 2319/00** (2013.01 - EP); **C07K 2319/02** (2013.01 - EP)

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