

Title (en)  
VITAMIN B-12 COMPOSITIONS

Title (de)  
VITAMIN-B-12-ZUSAMMENSETZUNGEN

Title (fr)  
COMPOSITIONS DE VITAMINE B12

Publication  
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Application  
**EP 05793864 A 20050907**

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US 2005031628 W 20050907

Abstract (en)  
[origin: WO2007030108A1] The present invention provides improved vitamin B12 compositions containing a mixture of vitamin B12 analogues that are better absorbed into the bloodstream of a patient with vitamin B12 deficiency, preferably via their mucosal membranes and also discusses convenient and inexpensive delivery methods for these compositions without the discomfort of subcutaneous or intramuscular injections.

IPC 8 full level  
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Citation (search report)  
• [E] WO 2006020291 A2 20060223 - BEBAAS INC [US], et al  
• [Y] US 6255294 B1 20010703 - ARMSTRONG HEPBURN T [US], et al  
• [Y] WO 02100429 A1 20021219 - TRANSITION THERAPEUTICS INC [CA], et al  
• [A] US 2004162292 A1 20040819 - EVENSTAD KENNETH L [US], et al  
• [DY] WO 9609085 A1 19960328 - INHALE THERAPEUTIC SYST [US]  
• See references of WO 2007030108A1

Cited by  
US8609630B2

Designated contracting state (EPC)  
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