

August 28, 2013  
REVISED

STATEMENT ON A NONPROPRIETARY NAME ADOPTED BY THE USAN COUNCIL

USAN (AB-112)	ASFOTASE ALFA
PRONUNCIATION	as" oh fos' tase al' fa
THERAPEUTIC CLAIM	Treatment of hypophosphatasia (HPP)
CHEMICAL NAMES	

1. Phosphatase, alkaline (synthetic human tissue-nonspecific isoenzyme ENB-0040)
2. Tissue-nonspecific alkaline phosphatase-IgG1 fusion protein; human tissue-nonspecific isozyme alkaline phosphatase (AP-TNAP, EC=3.1.3.1) fusion protein with leucyl-lysyl-human immunoglobulin G1 Fc region {(6-15)-H-CH2-CH3 of IGHG1\*03} fusion protein with aspartyl-isoleucyl-deca(aspartic acid), dimer (493-493':496-496')-bisdisulfide

STRUCTURAL FORMULA

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1 LVPEKEKDPK YWRDQAQETL KYALELQKLN TNVAKNVIMF LGDGMGVSTV
  51 TAARILKGQL HHNPGEETRL EMDKFPFVAL SKTYNTNAQV PDSAGTATAY
 101 LCGVKANEGT VGVSAATERS RCNTTQGNEV TSILRWAKDA GKSVGIVTTT
 151 RVNHATPSAA YAHSADRDWY SDNEMPPEAL SQGCKDIAYQ LMHNIRDIDV
 201 IMGGGRKMY PKNKTDVEYE SDEKARGTRL DGLDLVDTWK SFKPRYKHS
 251 FIWRTELLT LDPHNVDYLL GLFEPGDMQY ELNRNNVTDV SLSEMVVVAI
 301 QILRKNPKGF FLLVEGGRID HGHHEGKAKQ ALHEAVEMDR AIGQAGSLTS
 351 SEDTLTVVTA DHSHVFTFGG YTPRGNSIFG LAPMLSDTDK KPFTAILYGN
 401 GPGYKVVGGG RENVMVDYA HNNYQAQSAV PLRHETHGGE DVAVFSKGP
 451 AHLLHGVHEQ NYVPHVMAYA ACIGANLGHG APASSLKDKT HTPPCPAPE
 501 LLGGPSVFLF PPKPKDTLMI SRTPEVTCVV VDVSHEDPEV KFNWYVDGVE
 551 VHNAKTKPRE EQYNSTYRVV SVLTVLHQDW LNGKEYKCKV SNKALPAPIE
 601 KTISKAKGQP REPQVYTLPP SREEMTKNQV SLTCLVKGFY PSDIAVEWES
 651 NGQPENNYKT TPPVLDSGGS FFLYSKLTVD KSRWQQGNVF SCSVMHEALH
 701 NHYTQKSLSL SPGKDIDDDD DDDDDD
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MOLECULAR FORMULA

C<sub>7108</sub>H<sub>11008</sub>N<sub>1968</sub>O<sub>2206</sub>S<sub>56</sub>

ASFOTASE ALFA

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MOLECULAR WEIGHT

161 kDa

N13/

92

TRADEMARK

None as yet

SPONSOR

Alexion Pharma

CODE DESIGNATIONS

ALXN1215, ENB-0040

CAS REGISTRY NUMBER

1174277-80-5

WHO NUMBER

9269

SCS