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【手続補正書】
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 【手続補正1】
 【補正対象書類名】明細書
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 【補正方法】変更
 【補正の内容】
 【0010】

ボルテゾミブも、製薬という観点から、取り扱うには能力が試される。恐らく最大の難関は、米国特許第5,780,454号明細書および米国特許出願第2005/0240047号明細書に記載される合成において、得られるボルテゾミブのジアステレオマー純度が、合成方法のボルテゾミブに対する直接前駆体のジアステレオマー純度にほぼ完全に依存していることである。該直接前駆体は、ボルテゾミブのピナジオールポロン酸エステル誘導体であり、クロマトグラフィーによる精製が困難かつ非効率的な非晶質のガラス状泡沫である。

この出願の発明に関連する先行技術文献情報としては、以下のものがある(国際出願日以降国際段階で引用された文献及び他国に国内移行した際に引用された文献を含む)。

(先行技術文献)

(非特許文献)

【特許文献1】米国特許第4,499,082号明細書
 【特許文献2】米国特許第4,537,773号明細書
 【特許文献3】米国特許第4,963,655号明細書
 【特許文献4】米国特許第5,023,236号明細書
 【特許文献5】米国特許第5,106,948号明細書
 【特許文献6】米国特許第5,159,060号明細書
 【特許文献7】米国特許第5,169,841号明細書
 【特許文献8】米国特許第5,187,157号明細書
 【特許文献9】米国特許第5,242,904号明細書

- 【特許文献 1 0】米国特許第 5, 2 5 0, 7 2 0 号明細書
- 【特許文献 1 1】米国特許第 5, 4 7 0, 8 6 4 号明細書
- 【特許文献 1 2】米国特許第 5, 5 5 0, 2 6 2 号明細書
- 【特許文献 1 3】米国特許第 5, 5 8 0, 4 8 6 号明細書
- 【特許文献 1 4】米国特許第 5, 5 8 5, 3 9 0 号明細書
- 【特許文献 1 5】米国特許第 5, 6 1 4, 6 4 9 号明細書
- 【特許文献 1 6】米国特許第 5, 6 5 8, 8 8 5 号明細書
- 【特許文献 1 7】米国特許第 5, 6 9 3, 6 1 7 号明細書
- 【特許文献 1 8】米国特許第 5, 7 8 0, 4 5 4 号明細書
- 【特許文献 1 9】米国特許第 5, 8 3 0, 8 7 0 号明細書
- 【特許文献 2 0】米国特許第 5, 8 3 4, 4 8 7 号明細書
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- 【特許文献 2 5】米国特許第 6, 0 9 6, 7 7 8 号明細書
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- 【特許文献 2 7】米国特許第 6, 3 1 0, 0 5 7 号明細書
- 【特許文献 2 8】米国特許第 6, 3 7 2, 8 8 3 号明細書
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- 【特許文献 3 0】米国特許第 6, 5 4 8, 6 6 8 号明細書
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- 【特許文献 3 2】米国特許第 7, 4 4 2, 8 3 0 号明細書
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- 【特許文献 4 7】欧州特許出願公開第 2 9 3 8 8 1 号明細書
- 【特許文献 4 8】欧州特許出願公開第 3 1 5 5 7 4 号明細書
- 【特許文献 4 9】欧州特許出願公開第 3 5 4 5 2 2 号明細書
- 【特許文献 5 0】欧州特許出願公開第 6 3 2 0 2 6 号明細書
- 【特許文献 5 1】欧州特許出願公開第 0 9 9 5 7 5 7 号明細書
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- 【特許文献 5 3】国際公開第 8 9 / 0 9 2 2 5 号
- 【特許文献 5 4】国際公開第 9 1 / 1 3 9 0 4 号
- 【特許文献 5 5】国際公開第 9 4 / 0 4 6 5 3 号
- 【特許文献 5 6】国際公開第 9 4 / 1 7 8 1 6 号
- 【特許文献 5 7】国際公開第 9 4 / 2 5 0 4 9 号
- 【特許文献 5 8】国際公開第 9 4 / 2 5 0 5 1 号
- 【特許文献 5 9】国際公開第 9 5 / 0 9 6 3 4 号

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【特許文献61】国際公開第95/20603号
【特許文献62】国際公開第95/25533号
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【特許文献64】国際公開第96/12499号
【特許文献65】国際公開第96/13266号
【特許文献66】国際公開第96/14857号
【特許文献67】国際公開第98/17679号
【特許文献68】国際公開第98/22496号
【特許文献69】国際公開第99/30707号
【特許文献70】国際公開第00/02548号
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【特許文献72】国際公開第00/64467号
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【特許文献88】国際公開第2005/016859号
【特許文献89】国際公開第2005/021558号
【特許文献90】国際公開第2009/020448号
【特許文献91】国際公開第2010/114982号 (非特許文献)
【非特許文献1】Fenteany et al., "A beta-lactone related to lactacystin induces neurite outgrowth in a neuroblastoma cell line and inhibits cell cycle progression in an osteosarcoma cell line" Proc Natl Acad Sci, Apr. 12, 1994; 91(8): 3358-62.
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- 【非特許文献39】Velcade full prescribing information - Millennium.
- 【非特許文献40】European Opposition - Proprietor's Submissions, Sep. 5, 2011.
- 【非特許文献41】European Opposition - Main Request, Sep. 5, 2011.
- 【非特許文献42】European Opposition - Auxiliary Request 1, Sep. 5, 2011.
- 【非特許文献43】European Opposition - Auxiliary Request 2, Sep. 5, 2011.
- 【非特許文献44】European Opposition - Opponent's Reply, Sep. 19, 2011.
- 【非特許文献45】European Opposition - Proprietor's Response to Notice of Opposition, Jan. 17, 2011.
- 【非特許文献46】European Opposition - Proprietor's Amended Claims, Jan. 17, 2011.
- 【非特許文献47】European Opposition - Proprietor's Response 1 to Opponent's Reply, Sep. 21, 2011.
- 【非特許文献48】European Opposition - Main Request Replacement Page, Sep. 21, 2011.
- 【非特許文献49】European Opposition - Auxiliary Request 1 Replacement Page, Sep. 21, 2011.
- 【非特許文献50】European Opposition - Auxiliary Request 2 Replacement Page, Sep. 21, 2011.
- 【非特許文献51】European Opposition - Proprietor's Response 2 to Opponent's Reply, Sep. 21, 2011.
- 【非特許文献52】European Opposition - Hearing Minutes, Nov. 2, 2011.
- 【非特許文献53】European Opposition - Opponent Request to Correct Hearing Minutes, Nov. 20, 2011.
- 【非特許文献54】European Opposition - Proprietor Response to Opponent Request to Correct Hearing Minutes, Nov. 29, 2011.
- 【非特許文献55】European Opposition - Opposition Division Decision on Hearing Minutes, Dec. 5, 2011.
- 【非特許文献56】European Opposition - Opponent Response to Proprietor Response to Opponent Request, Dec. 7, 2011.
- 【非特許文献57】European Opposition - Opposition Division Opposition Decision, Dec. 14, 2011.
- 【非特許文献58】European Opposition - Text Approved by Opposition Division, Dec. 14, 2011

- 【非特許文献59】European Opposition - Notices of Appeal, Feb. 23, 2012.
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- 【非特許文献61】Hoffmann et al., Chemische Berichte 123 (1990), pp. 2387 - 2394.
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- 【非特許文献66】European Opposition - Proprietor First Auxiliary Request, Apr. 24, 2012.
- 【非特許文献67】European Opposition - Proprietor Second Auxiliary Request, Apr. 24, 2012.