

中国当归属新分类群*

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NEW TAXA OF *ANGELICA* LINN. FROM CHINA

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关键词 当归属; 巴郎山当归; 康定当归; 松潘当归; 羽苞当归; 中国

1 巴郎山当归 新种 图 1

Angelica balangshanensis Shan et Pu, sp. nov.; Shan et Pu ex Pu in W. T. Wang et al. Vasc. Pl. Hengduan Mount. 1: 1346. 1993, nom. seminud.

Species similis *A. maowenensi* Yuan et Shan, sed foliis basilaribus ternato-pinnatisectis, segmentis ultimis elongato-ovatis, 3~9 cm longis, 3~6 cm latis, basi cuneatis vel truncatis, involucellorum phyllis oblanceolatis umbellulis subaequilongis vel eis longioribus, integeris vel apice 2~3-lobulatis, distincte reticulatis differt.

Herba perennis, 1~1.2 m alta. Radix elongato-conica, 10~12 cm longa, 2~3 cm crassa. Caulis striatus, rare pubescens. Folia basilaria petiolata, petiolis 10~15 cm longis, puberulis, vaginis oblongis; lamina ambitu deltoideo-ovata, 20~28 cm longa, 15~18 cm lata, 3~4-jugo-ternato-pinnatisecta, segmentis ultimis elongato-ovatis, 3~9 cm longis, 3~6 cm latis, basi cuneatis vel truncatis, apice acuminatis, marginibus obtuso-serratis; folia caulina superiora minora, sensim simpliciora, sessilia, vaginis elongato-ovatis. Umbellae fructiferae 12~17 cm diam.; involucri phylla nulla; radii 50~60, inaequilongi, 4~12 cm longi, puberuli; involucelli phylla 5~10, oblanceolata vel lanceolata, inaequalia, 0.5~2 cm longa, 0.5~2 mm lata, integra vel apice 2~3-lobulata, distincte reticulata; umbellulae

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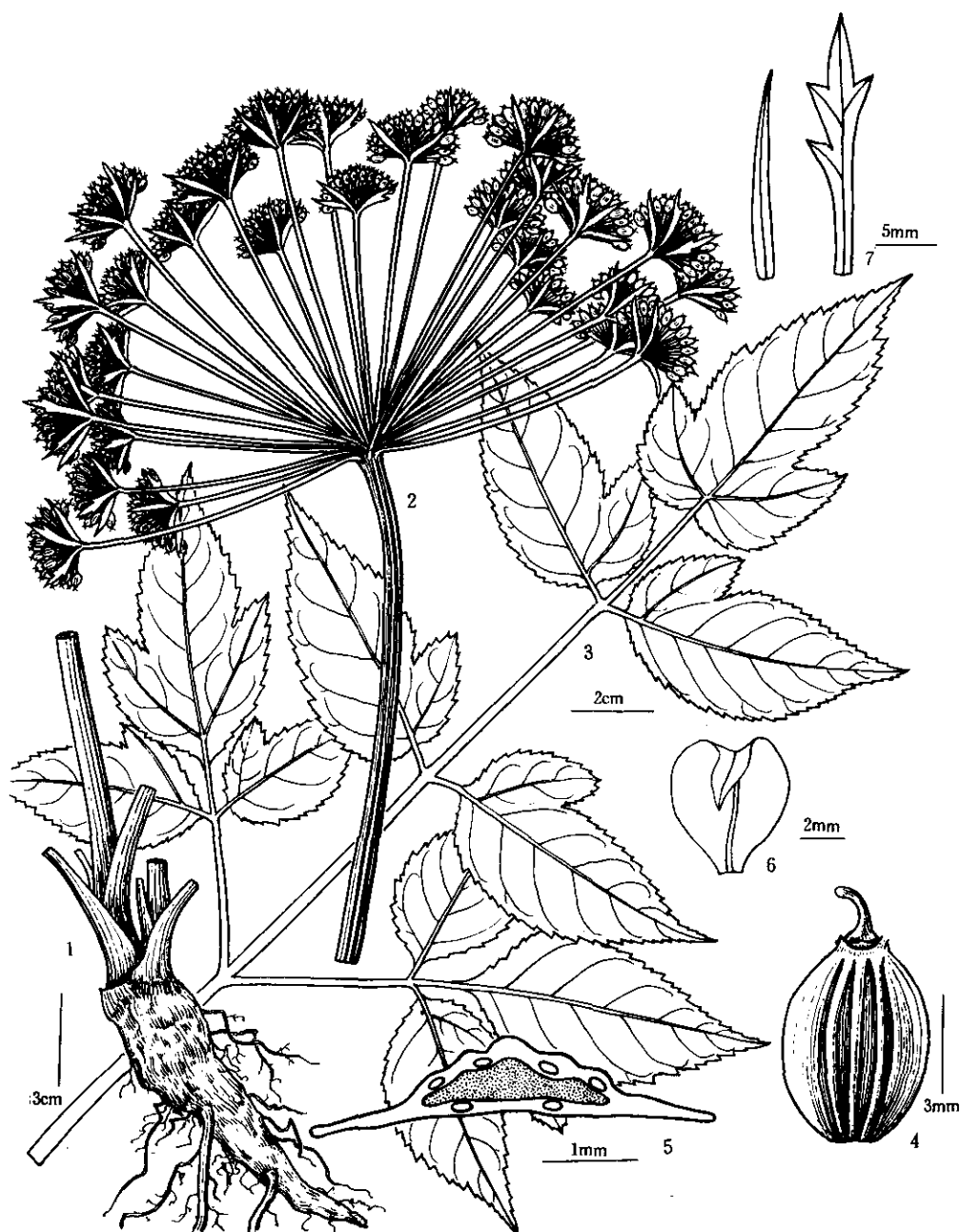


图1 巴郎山当归 1. 植株下部; 2. 伞形花序; 3. 叶片; 4. 分生果; 5. 分生果横剖面; 6. 花瓣; 7. 小总苞片。

Fig. 1 *Angelica balangshanensis* Shan et Pu 1. lower part of plant; 2. umbel; 3. lamina; 4. mericarp; 5. cross section of mericarp; 6. petal; 7. involucre bractlet.

15 ~ 35-florae, pedicellis inaequilongis; calycis dentes nulli; petala alba, obovata, basi cuneata, apice lobulo inflexo; stylopodium conicum, stylis reflexis, stylopodio fere duplo longioribus. Mericarpia ovata, dorso-ventraliter compressa, c. 5 mm longa, 3.5 mm lata, jugis dorsalibus prominentibus, jugis lateralibus late alatis, vittis ad valleculeas solitaribus, ad

commissuram 2; endospermium ad commissuram planum.

Sichuan (四川): Xiaojin (小金), Balang Mt. (巴郎山), alt. 3500 m, alpine bush-woods, 1984-09-07, F. T. Pu *et al.* (溥发鼎等) 287 (type, CDBI).

多年生草本, 高 1~1.2 m。根长圆锥形, 棕褐色, 长 10~12 cm, 根颈部直径 2~3 cm。茎具纵条纹, 被疏柔毛。基生叶有柄, 长 10~15 cm, 被疏柔毛, 叶鞘长圆形; 叶片轮廓三角状卵形, 三出式一回羽状分裂, 3~4 对羽片, 下部一对羽片 3 深裂, 末回裂片长卵形, 长 3~9 cm, 基部楔形, 顶端渐尖, 边缘有锯齿, 叶轴及叶脉被疏毛, 茎上部叶逐渐简化, 较小, 无柄, 叶鞘长卵形。复伞形花序直径 12~17 cm, 无总苞片; 伞辐 50~60, 不等长, 长 4~12 cm, 被糙毛; 小总苞片 5~10, 披针形至倒披针形, 全缘或顶端 2~5 浅裂, 大小不等, 长 0.5~2 cm, 宽 0.5~2 mm, 网脉明显; 小伞形花序有花 15~35, 花柄不等长; 无萼齿; 花瓣倒卵形, 白色, 基部楔形, 顶端微凹, 有内折小舌片; 花柱基圆锥形, 花柱基约为花柱基的 2 倍, 向两侧弯曲。分生果近卵圆形, 背腹扁压, 长约 5 mm, 宽约 3.5 mm, 背棱及中棱突起, 侧棱扩展成翅, 棱槽内油管单生, 合生面油管 2; 胚乳腹面平直。

本种与茂汶当归 *A. maowenensis* Yuan et Shan 相近, 但本种叶片三出式羽状分裂, 末回裂片长卵形, 长 3~9 cm, 宽 3~6 cm, 基部楔形或截形; 小总苞片披针形或倒披针形, 近于或长于小伞形花序, 全缘或顶端 2~3 裂, 网脉明显。而茂汶当归的叶片为 2 回羽状分裂, 末回裂片长圆形, 长 5~9 cm, 宽 2~3 cm, 基部沿叶轴下延呈翅状; 小总苞片长披针形, 全缘, 近于或短于花柄, 仅中脉明显。

2 康定当归 新种 图 2

Angelica kangdingensis Shan et Pu, sp. nov.; Shan et Pu ex Pu in W. T. Wang *et al.* Vasc. Pl. Hengduan Mount. 1: 1345. 1993, nom. seminud.

Species *A. laxifoliae* Diels arcte affinis, sed radiis gracilibus valde inaequilongis, calycis dentibus deltoideis, mericarpii jugis lateralibus mericarpio ipsi subaequilatis.

Herba perennis, c. 0.8 m alta. Radix elongato-conica, c. 6 cm longa, 1 cm crassa. Caulis singularis, atro-purpureus, superne 1-ramosus. Folia basilaria et caulina inferiora petiolata, vaginis oblongis; lamina 3~4-jugo-ternato-bipinnatisecta, segmentis ultimis ovatis vel oblongo-ovatis, 1~3 cm longis, 0.5~2 cm latis, margine serratis; folia caulina superiora minora, sensim simpliciora. Umbellae fructiferae ad c. 10 cm diam.; involucri phylla 2~3, lanceolata, 0.5~1 cm longa; radii 30~40, graciles, inaequilongi, vulgo 2~5 cm longi, purpurei; involucelli phylla 3~5, involucri phyllis similia; umbellulae pluriflorae, pedicellis inaequilongis; calycis dentes deltoidei; petala alba, obovata, basi cuneata, apice emarginata; stylopodium breviter conicum, stylis eis subaequilongis. Mericarpia suborbiculata, 3~4 mm longa, c. 3.5 mm lata, dorso-ventraliter compressa, jugis dorsalibus prominentibus, jugis lateralibus late alatis; vittae ad valleculeas unicae, ad commissuram 2; endospermium ad commissuram planum.

Sichuan (四川): Kangding (康定), Zhedo Mt. (折多山), alt. 3000 m, in bush-woods, 1984-09-22, Y. J. Li (李永江) 450 (type, CDBI).

多年生草本, 高约 80 cm。根长圆锥形, 长约 6 cm, 根颈部直径约 1 cm。茎单生, 带紫

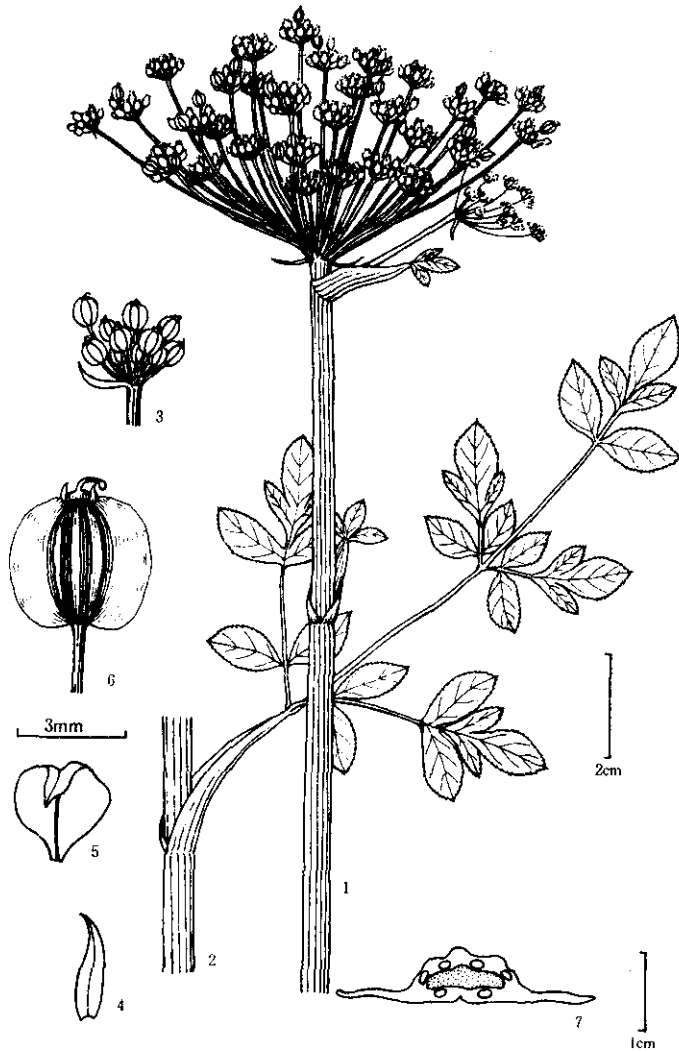


图2 康定当归 1. 伞形花序; 2. 叶片; 3. 小伞形花序; 4. 小总苞片; 5. 花瓣; 6. 分生果; 7. 分生果横剖面。
Fig. 2 *Angelica kangdingensis* Shan et Pu 1. umbel; 2. lamina; 3. umbellet; 4. involucre bractlet; 5. petal; 6. mericarp; 7. cross section of mericarp.

红色,上部1个分枝。基生叶及茎下部叶有柄,叶鞘长圆形;叶片三出式2回羽状分裂,第一回羽片3~4对,彼此疏离,末回裂片卵形或长卵形,长1~3 cm,宽0.5~2 cm,边缘有锐锯齿;茎上部叶与茎下部叶同形,较小,叶片简化。顶生复伞形花序直径约10 cm,总苞片2~3,披针形,长0.5~1 cm;伞辐30~40,纤细,极不等长,一般长2~5 cm,带紫色;小总苞片3~5,与总苞片同形;小伞形花序花多数,花柄不等长;萼齿三角形;花瓣白色,倒卵形,基部楔形,顶端微凹,有内折小舌片;花柱基短圆锥形,花柱与花柱基近等长。分生果近圆形,长3~4 mm,宽约3.5 mm,背腹扁压,背棱和中棱突起,侧棱扩展成翅,棱槽中油管单生,合生面油管2;胚乳腹面平直。

本种叶片三出式2回羽状分裂;第一回羽片3~4对,彼此疏离;果实近圆形,这些特点与疏叶当归 *A. laxifoliata* Diels 相近,但本种的伞辐纤细,极不等长,萼齿明显,呈三角

形,分生果侧棱与果体近等宽。而疏叶当归的伞辐稍粗壮;萼齿不明显;分生果侧棱显著宽于果体。

3 松潘当归 新种 图 3

Angelica songpanensis Shan et Pu, sp. nov.; Shan et Pu ex Pu in W. T. Wang *et al.* Vasc. Pl. Hengduan Mount. 1: 1345. 1993, nom. seminud.

Species affinis *A. pseudoselinum* Boissieu, sed foliis basilaribus uni-bi-pinnatisectis, involucellii phyllis 1~3, calycis dentibus deltoideis minoribus, petalis obovatis, basi cuneatis differt.

Herbs perennis, 30~80 cm alta. Radix elongato-conica, inferne furcata, fulva, 8~12 cm longa; caudex 1.5~2 cm crassus. Caulis singularis, striatus, purpuratus, rare puberulus, vulgo eramosus. Folia basilaria petiolata, petiolis usque ad 25 cm longis, vaginis striatis purpureis; lamina 3-jugouni-bi-pinnatisecta, segmentis ultimis ovatis vel elongato-ovatis, 3~7 cm longis, 2~3.5 cm latis, marginibus serratis; folia caulina media et superiora minora, sensim simpliciora, breviter petiolaria et gradatim sessilia. Umbellae terminales 6~7 cm diam.; involucri phylla 2~3, linearia, c. 1.5 cm longa; radii 20~25, inaequilongi, 1~5 cm longi, strigosi; involucelli phylla 1~3, eis involucri similia; umbellulae 5~15-florae; pedicellis inaequilongis, 2~7 mm longis; calycis dentes minores, deltoidei; petala obovata, alba, basi cuneata, apice emarginata; stylopodium conicum, stylis reflexis. Mericarpiis subovata, 6~7 mm longa, 3~4 mm lata, dorso-ventraliter compressa, jugis dorsalibus prominentibus, jugis lateralibus late alatis; vittae ad valleculas 1~2, ad commissuram 2; endospermium ad commissuram planum.

Sichuan (四川): Songpan (松潘), Huanglong, Dawan (黄龙,大湾), alt. 2930 m, in forests, 1983-10-12, Z. W. Li *et al.* (李卓伟等) 140 (CDBI); same locality, Xue-bao-ding Mt. (雪宝顶), alt. 4000 m, in subalpine forests, 1983-10-14, F. T. Pu *et al.* (溥发鼎等) 159 (type, CDBI); same locality, alt. 3800 m, in subalpine forests, 1983-10-14, F. T. Pu *et al.* 165 (CDBI).

多年生草本,高 30~80 cm。根长圆锥形,下部分叉,黄褐色,长 8~12 cm,根颈部直径 1.5~2 cm。茎单生,带紫色,具纵条纹,通常不分枝,被疏柔毛。基生叶有长柄,长达 25 cm,紫红色,叶鞘长圆形,带紫红色条纹;叶片 1~2 回羽状分裂,第一回羽片 3 对,末回裂片卵形或长卵形,长 3~7 cm,宽 2~3.5 cm,边缘有锯齿;茎中上部叶较小,向上逐渐简化,具短柄或无柄,叶鞘卵形。顶生伞形花序直径 6~7 cm,总苞片 2~3,线形,长约 1.5 cm;伞辐 20~25,极不等长,一般长 1~5 cm,被糙毛;小总苞片 1~3,与总苞片同形;小伞形花序有花 5~15,花柄不等长,长 2~7 mm;萼齿细小,三角形;花瓣倒卵形,白色,基部楔形,顶端微凹,有内折小舌片;花柱基圆锥形,褐色,花柱向两侧弯曲。分生果近卵圆形,长 6~7 mm,宽 3~4 mm,背棱和中棱突起,侧棱翅状,棱槽内油管 1~2,合生面油管 2;胚乳腹面平直。

本种与管鞘当归 *A. pseudoselinum* Boiss 相近,但本种基生叶 1~2 回羽状分裂;小总

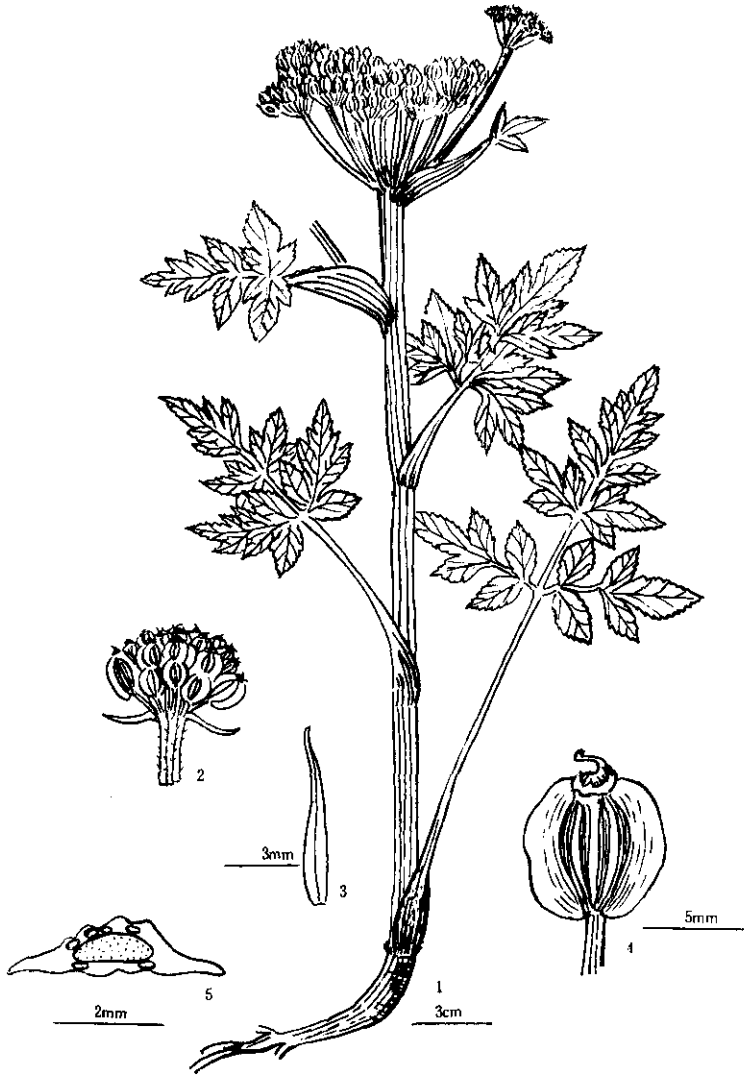


图3 松潘当归 1. 植株; 2. 小伞形花序; 3. 小总苞片; 4. 分生果; 5. 分生果横剖面
Fig. 3 *Angelica songpanensis* Shan et Pu 1. habit; 2. umbellet; 3. involucre bractlet; 4. mericarp; 5. cross section of mericarp.

苞片1~3; 萼齿细小, 三角形; 花瓣倒卵形, 基部楔形。管鞘当归的基生叶2回羽状分裂; 小总苞片5~7; 萼齿不明显; 花瓣卵形, 基部具爪。

4 羽苞当归 新种 图4

Angelica pinnatiloba Shan et Pu, sp. nov.; Shan et Pu ex Pu in W. T. Wang et al. Vasc. Pl. Hengduan Mount. 1: 1345. 1993, nom. seminud.

Species *A. oncosepalae* Hand. -Mazz. arcte affinis, sed foliis basilaribus ternato-bipinnatisectis, involucelli phyllis umbellulis manifeste longioribus, plerumque pinnatisectis, calycis dentibus subuliformibus differt.

Herba perennis, 25~30 cm alta. Radix elongato-conica, fulva, 4~10 cm longa, fusca; caudex c. 2 cm crassus. Caulis singularis, striatus, puberulus, simplex. Folia basilaria

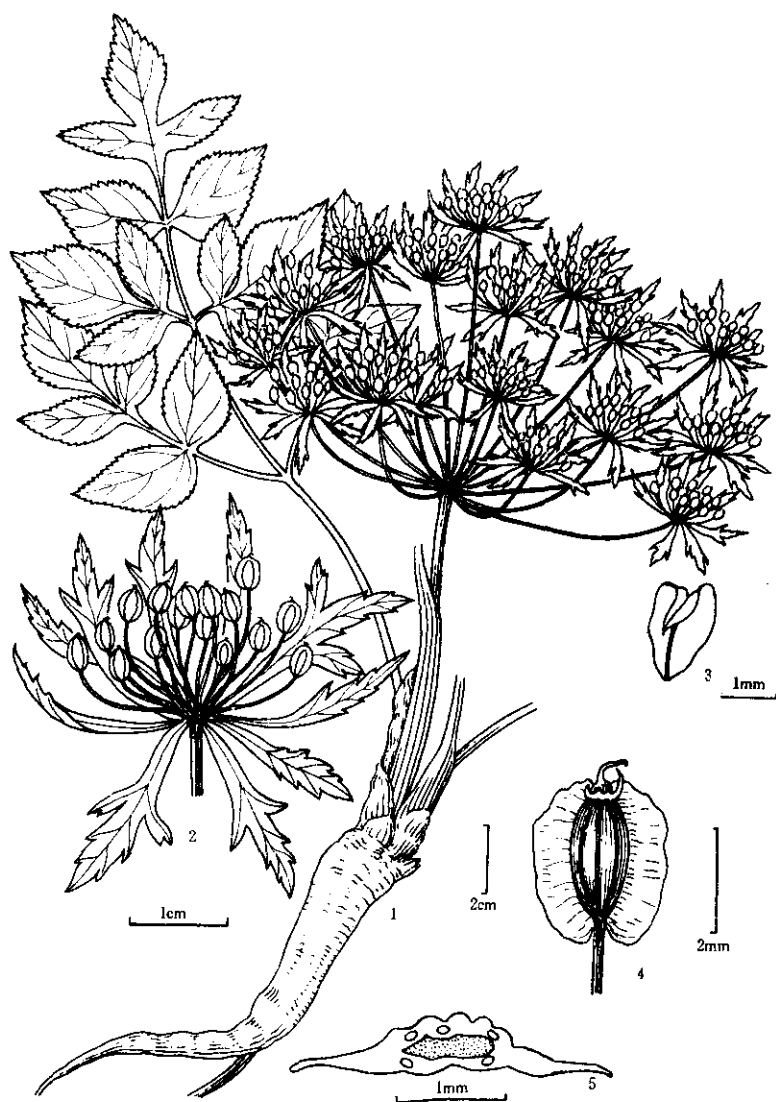


图4 羽苞当归 1. 植株; 2. 小伞形花序; 3. 花瓣; 4. 分生果; 5. 分生果横剖面。

Fig. 4 *Angelica pinnatifida* Shan et Pu 1. habit; 2. umbellet; 3. petal. 4. mericarp; 5. cross section of mericarp.

5~8, petiolata, petiolis 4~10 cm longis; lamina 2~3-jugoternato-bipinnatisecta, segmentis ultimis late ovatis vel elongato-ovatis, 3~5.5 cm longis, 1~2.5 cm latis, basi cuneatis, apice acuminatis, margine serratis; folia caulina mediora et superiora nulla. Umbellae terminales c. 15 cm diam.; involucri phylla nulla vel unica; radii 25~30, graciles, inaequilongi, vulgo 3~7 cm longi; involucelli phylla 5~15, lanceolata, umbellulis fere duplo longiora, pauca integra vel apice 2~3-lobata, plerumque pinnatisecta; umbellulae pluri-florae; pedicellis gracilibus, inaequilongis, 2~15 mm longis; calycis dentes subulati; petala obovata, alba, basi cuneata, apice lobulo inflexo; stylopodium conicum, stylis ei subaequilongis. Meri-

carpia subovata, 3~4 mm longa, c. 3 mm lata, dorsi-ventraliter compressa, jugis dorsalibus projectis, jugis lateralibus late alatis; vittae ad vallecultas unicae, ad commissuram 2; endospermium ad commissuram planum.

Sichuan (四川): Songpan (松潘), Rawu district, Eqigou (热务区, 埃溪沟), alt. 2700 m, at the edge of forest or by streams, 1983-10-19, F. T. Pu *et al.* (溥发鼎等) 197 (type, CDBI).

多年生草本,高 25~30 cm。根长圆锥形,表面黄褐色,长 4~10 cm,根颈部直径约 2 cm,有支根。茎单一,具纵条纹,被柔毛,不分枝。基生叶 5~8,有柄,包括叶鞘长 4~10 cm;叶片三出式 2 回羽状分裂,第一回羽片 2~3 对,末回裂片阔卵形至长卵形,长 3~5.5 cm,宽 1~2.5 cm,基部楔形,顶端渐尖,边缘有锯齿;茎中、上部无叶片。顶生复伞形花序直径为 15 cm,偶有 1 总苞片,全缘;伞辐 25~30,柔细,不等长,长 3~7 cm;小总苞片 5~15,披针形,不等大,明显长于小伞形花序,有的超出小伞形花序 1 倍,羽状分裂,稀 2~3 裂或全缘;小伞形状花序有多数花,花柄纤细,不等长,长 2~15 mm;萼齿钻形;花瓣白色,倒卵形,基部楔形,顶端凹陷,有内折小舌片;花柱基圆锥形,花柱约与花柱基近等长。分生果近卵圆形,长 3~4 mm,宽约 3 mm,背腹扁压,背棱与中棱突起,侧棱翅状,与果体近等宽;棱槽中油管单生,合生面油管 2;胚乳腹面平直。

本种与萼隆当归 *A. oncosepala* Hand.-Mazz. 相近,但本种基生叶三出式 2 回羽状分裂;萼齿钻形;小总苞片多数呈羽状分裂,明显长于小伞形花序,不同于后者。