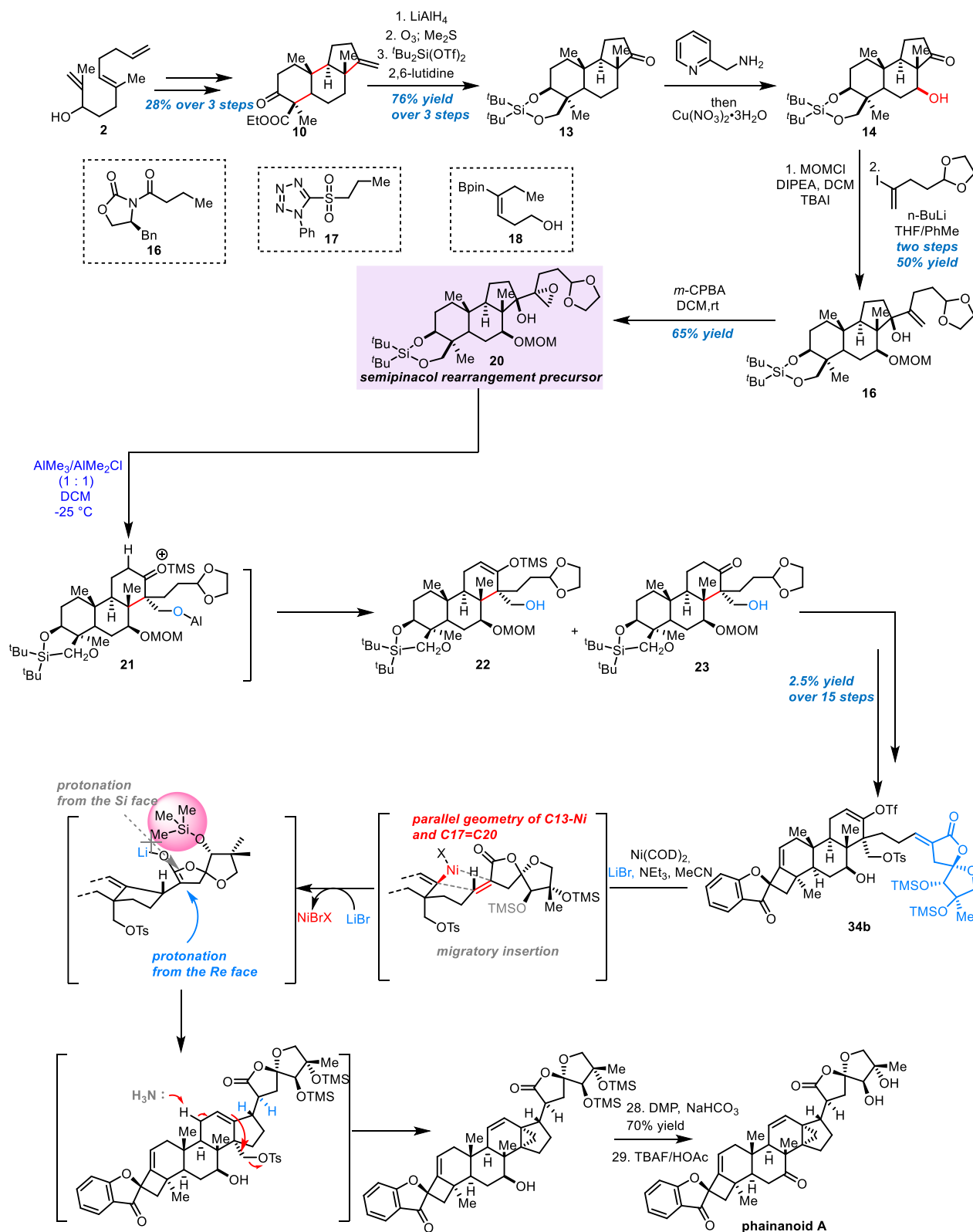




Key Steps:

- Semipinacol rearrangement
- Tandem reductive Heck homoallylic elimination

Significance:

- First total synthesis of Phainanoid A.
- Bidirectional synthesis.