

# Working with stereodefined phosphorothioate

## PURPOSE

Decide first whether the sequence needs defined Rp/Sp configuration at all, then choose the chiral auxiliary that delivers it - DPSE or PSM, D or L. Plan the diastereomeric reference standards before the campaign rather than after: without them the configuration cannot be demonstrated.

## SELECTION POINTS IN THIS GUIDE

**01** Need for defined Rp/Sp configuration

**02** Chiral auxiliary: DPSE or PSM

**03** Auxiliary configuration: D or L

**04** Diastereomeric reference standards

**05** Configuration demonstration plan

## PREPARE A TECHNICAL REQUEST

|                      |                                                                                                                                    |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------|
| <b>Target</b>        | Product name, CAS number, structure, SMILES, drawing or target material profile.                                                   |
| <b>Use context</b>   | Catalog purchase, screening, custom synthesis, process development, reference standard, impurity standard or non-GMP tox material. |
| <b>Quantity</b>      | Desired amount, acceptable staged delivery and expected future scale.                                                              |
| <b>Specification</b> | Target purity, salt form, counterion, water content concern, residual solvent limits and analytical method requirements.           |
| <b>Documentation</b> | CoA, analytical summary, storage guidance, method notes or additional project-specific documents.                                  |
| <b>Timeline</b>      | Requested delivery window and any critical study, campaign or screening dates.                                                     |

### RELATED CATALOG

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