

Ready to start planning your care? Call us at [800-525-2225](tel:800-525-2225) to make an appointment.

×



Memorial Sloan Kettering
Cancer Center

[About Us](#)
[Sloan Kettering Institute](#)
[Research Resources](#)

[Research](#)

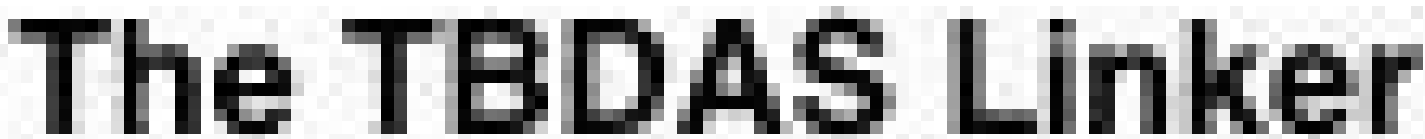
TBDAS Linker

[Education & Training](#)

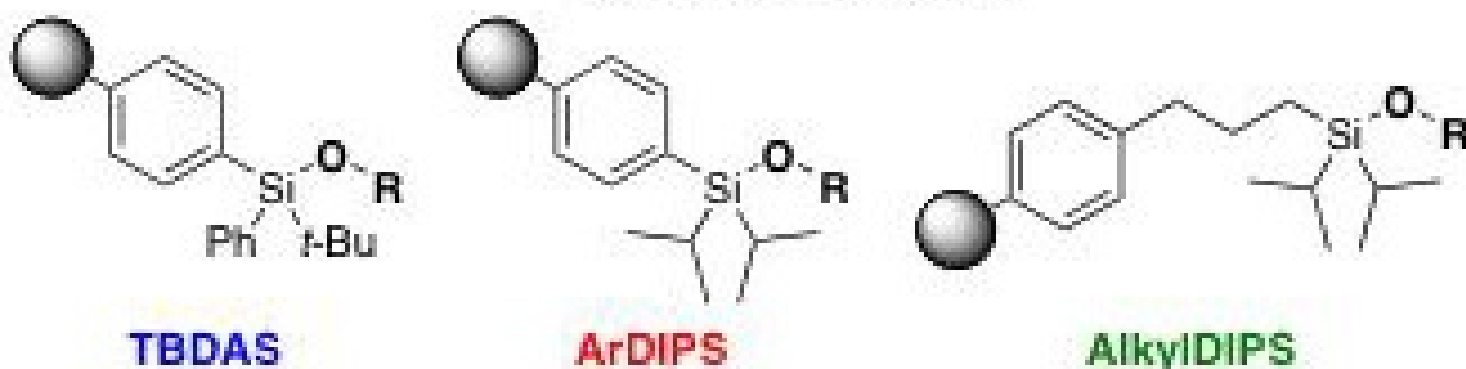
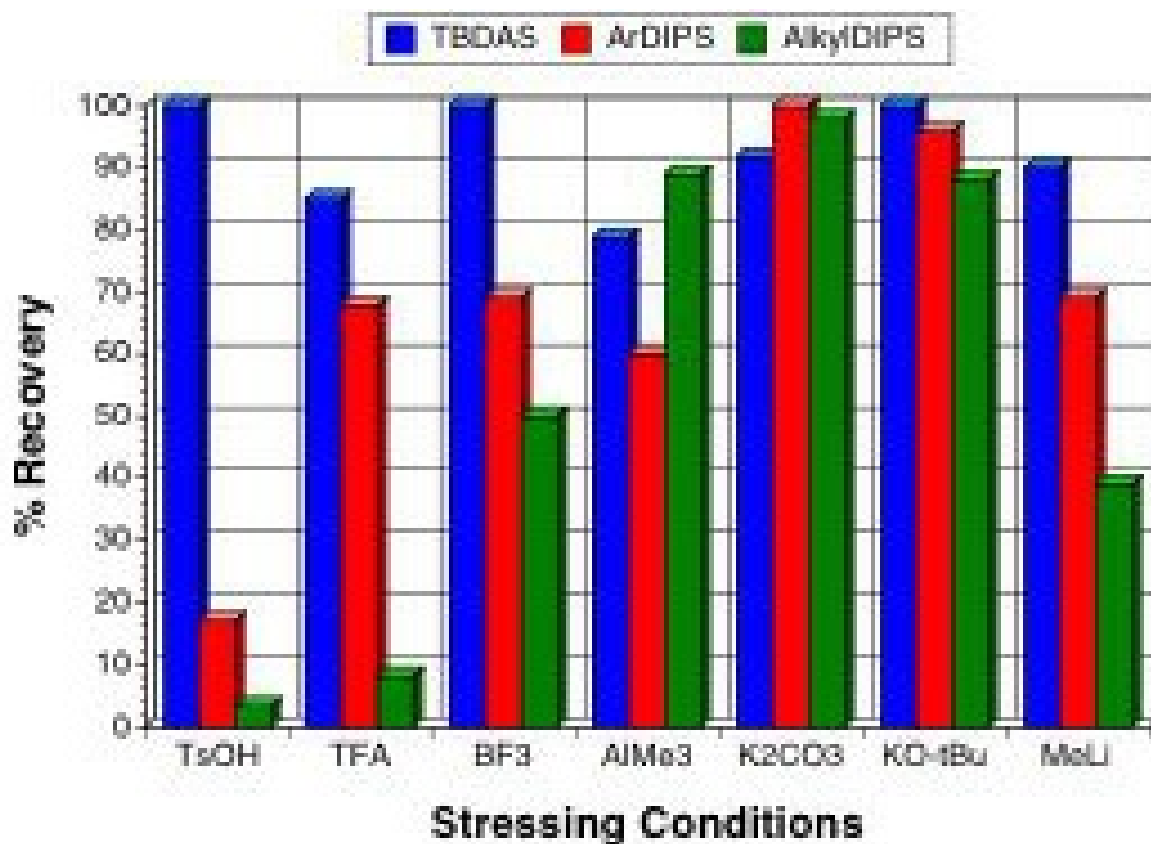
A Robust Linker for Solid Phase Diversity-Oriented Synthesis

[News & Events](#)

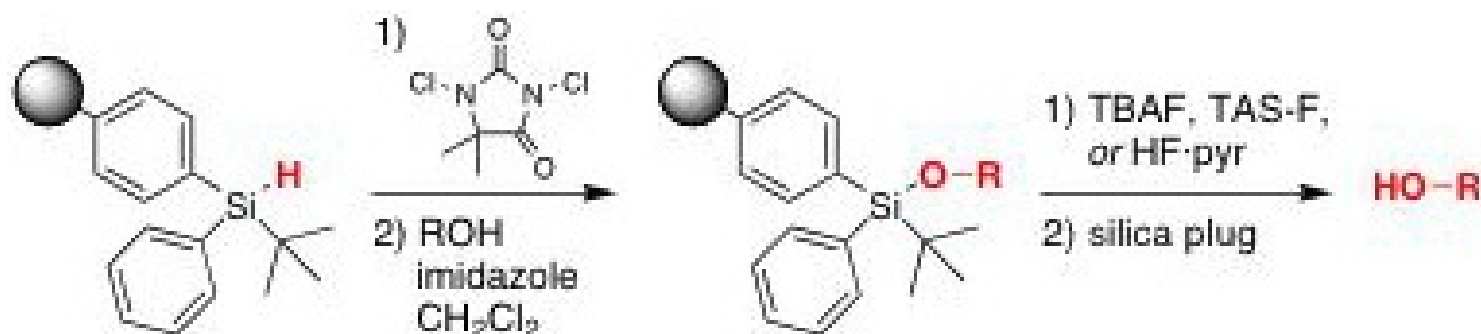
[Open Positions](#)



2/5



As depicted graphically here, the TBDAS linker (blue) is stable to a range of acidic and basic reaction conditions commonly used in organic synthesis. In contrast, previously reported aryldiisopropylsilyl (ArDIPS, red) and alkyldiisopropylsilyl (AlkyDIPS) linkers are generally less stable to these conditions.



The TBDAS linker is activated by chlorination with dichlorodimethylhydantoin, followed by loading of the desired alcohol-containing substrate. After synthetic transformation, the product is cleaved from the solid support by treatment with TBAF, TAS-F, or $\text{HF}\cdot\text{pyr}$. The product can be conveniently separated from the cleavage reagents by passage through a short plug of reverse phase over

For full details on the synthesis and use of this linker, see:

DiBlasi, C. M.; Macks, D. E.; Tan, D. S. * "An acid-stable *tert*-butyldiarylsilyl (TBDAS) linker for solid-phase organic synthesis." *Org Lett.* 2005, 7, 1777-1780.

[[Abstract](#) | [PDF](#) | [Supporting Info](#)]

Highlighted in [Letters in Organic Chemistry](#) [[PDF](#)]

▼ About Us

[Overview](#)

[Leadership](#)

[Administration](#)

[History](#)

[Contact Us](#)



▼ Research

[Overview](#)

[Research programs](#)

[Research labs](#)

[Core facilities & resources](#)

▼ Education & Training

[Overview](#)

[Postdoctoral training](#)

[Gerstner Sloan Kettering Graduate School](#)

[Joint graduate programs](#)

[Programs for college & high school students](#)

▼ News & Events

[Overview](#)

[Seminars & events](#)

▼ Open Positions

[Overview](#)

[Faculty positions](#)

[Postdoctoral positions](#)

[Communication preferences](#)

[Cookie preferences](#)

[Legal disclaimer](#)

[Accessibility Statement](#)

[Privacy policy](#)

[Public notices](#)

© 2024 Memorial Sloan Kettering Cancer Center