

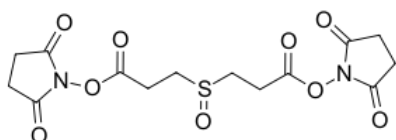
## DSSO linker

<http://www.lumiprobe.com/p/dsso-linker>

The DSSO (Disuccinimidyl sulfoxide) linker is an MS-cleavable, homobifunctional crosslinker engineered for modern cross-linking mass spectrometry (XL-MS), used for high-resolution analysis of protein-protein interactions (PPIs) and structural topology.

The unique feature is a central sulfoxide group that undergoes predictable, collision-induced dissociation (CID) during tandem MS (MS/MS). This cleavage yields characteristic doublet peaks in the MS/MS spectrum. This distinct fragmentation signature enables unambiguous identification of cross-linked peptides and facilitates automated data processing, directly addressing the complexity of proteome-wide cross-linking studies.

DSSO provides robust, lysine-specific covalent stabilization of protein complexes, delivering precise, residue-level constraints for integrative structural modeling.



**Structure of DSSO (Disuccinimidyl sulfoxide)**

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### General properties

Appearance: white powder

Molecular weight: 388.35

CAS number: 1351828-03-9

Molecular formula: C<sub>14</sub>H<sub>16</sub>N<sub>2</sub>O<sub>9</sub>S

Solubility: DMSO

Quality control: NMR <sup>1</sup>H and HPLC-ELSD (95+%)

Storage conditions: 12 months after receipt at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Desiccate.

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