

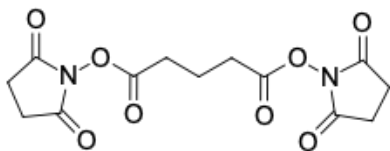
Disuccinimidyl glutarate (DSG)

<http://cn.lumiprobe.com/p/disuccinimidyl-glutarate-79642-50-5>

Disuccinimidyl glutarate (DSG) is a homobifunctional crosslinker that contains two N-hydroxysuccinimide (NHS) ester groups at each end of a short 5-atom (7.7 angstrom) spacer.

DSG is a membrane-permeable and non-cleavable crosslinker, allowing for intracellular labeling of peptides and proteins. NHS esters react with amines of lysine residues and N-termini of peptides and proteins, forming a covalent amide bond and releasing the NHS group. DSG is commonly used to pair radiolabelled ligands to cell surface receptors and determine DNA-protein binding interactions in ChIP assays. DSG labeling is often combined with formaldehyde fixation to improve the detection of DNA-protein complexes.

DSG is water-insoluble and must be dissolved in an organic solvent, such as DMSO or DMF, before being added to aqueous solutions.



外观:

分子 326.26

量:

CAS 79642-50-5

编号:

分子 $C_{13}H_{14}N_2O_8$

式:

IUPAC Bis(2,5-dioxopyrrolidin-1-yl) Pentanedioate

名称:

溶解

度:

质量

控制:

储存

条件:

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