

# PRODUCT INFORMATION



## Disuccinimidyl Suberate

Item No. 13008

CAS Registry No.: 68528-80-3

Formal Name: octanedioic acid, 1,8-bis(2,5-dioxo-1-pyrrolidinyl)ester

Synonyms: DSS, NSC 340008

MF:  $C_{16}H_{20}N_2O_8$

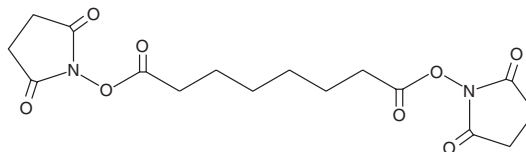
FW: 368.3

Purity:  $\geq 98\%$

Supplied as: A crystalline solid

Storage:  $-20^{\circ}\text{C}$

Stability: As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly



### Laboratory Procedures

Disuccinimidyl suberate (DSS) is supplied as a crystalline solid. A stock solution may be made by dissolving the DSS in an organic solvent purged with an inert gas. DSS is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of DSS in these solvents is approximately 10 mg/ml.

DSS is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, DSS should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. DSS has a solubility of approximately 0.15 mg/ml in a 1:5 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

### Description

DSS is a bifunctional cross-linking reagent which contains two N-hydroxysuccinimide esters that are reactive toward primary amines. DSS is membrane-permeable and is commonly used to cross-link proteins in intact cells.<sup>1,2</sup>

### References

1. Héту, P.-O., Ouellet, M., Falgout, J.-P. , *et al.* Photo-crosslinking of proteins in intact cells reveals a dimeric structure of cyclooxygenase-2 and an inhibitor-sensitive oligomeric structure of microsomal prostaglandin  $E_2$  synthase-1. *Arch. Biochem. Biophys.* **477**, 155-162 (2008).
2. Ding, H. and Johnson, G.V.W. New application of  $\beta$ -galactosidase complementation to monitor tau self-association. *J. Neurochem.* **106**, 1545-1551 (2008).

#### WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

#### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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