Sucrose octasulfate (potassium salt)

**Item No. 16382**

**CAS Registry No.:** 73264-44-5

**Formal Name:** 2,3,4,6-tetrakis(hydrogen sulfate),1,3,4,6-tetra-O-sulfo-β-D-fructofuranosyl α-D-glucopyranoside, octapotassium salt

**Synonyms:** SOS, Sucrosofate potassium

**MF:** C₁₂H₁₄O₃₅S₈ • 8K

**FW:** 1287.5

**Purity:** ≥95%

**Stability:** ≥2 years at -20°C

**Supplied as:** A crystalline solid

**Laboratory Procedures**

For long term storage, we suggest that sucrose octasulfate (SOS) (potassium salt) be stored as supplied at -20°C. It should be stable for at least two years.

SOS (potassium salt) is supplied as a crystalline solid. A stock solution may be made by dissolving the SOS (potassium salt) in the solvent of choice. SOS (potassium salt) is soluble in water at a concentration of approximately 10 mg/ml. We do not recommend storing the aqueous solution for more than one day.

SOS, a component of the gastrointestinal protectant sucralfate, is an alkaline aluminum–sucrose complex that inhibits peptic hydrolysis and raises gastric pH¡ protecting esophageal epithelium against acid injury.¹ It can bind to exosite II of thrombin (Kᵣ = ~1.4 µM) and inhibit its catalytic activity (IC₅₀ = 4.5 µM) and, as such, has been used as a surrogate for heparin.² Furthermore, SOS has been shown to inhibit tumor growth in mouse melanoma and lung carcinoma models by preventing fibroblast growth factor 2 (FGF-2) binding to endothelial cells and also by removing any pre-bound FGF-2 from these cells (IC₅₀ = ~2 µg/ml).³

**References**


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