



# Sulfate transporters SULTR

[4 groups, 12 members]

## SULTR 1

Sulfur uptake roots, phloem

**SULTR 1;1/SULTR 1;2**  
- root epidermis, cortex  
- high affinity

**SULTR 1;3**  
- phloem, control of sulfur transport from sink to source organs

- high affinity

## SULTR 2

influx of sulfate into xylem cells, expressed in central cylinder

**SULTR 2;1**  
- in roots and shoots, located in central cylinder  
- in shoots transport of apoplastic sulfate  
- low affinity

**SULTR 2;2**  
- expressed in phloem companion cells  
- low affinity

## SULTR 3

activity as sulfate transporters in *A. thaliana* not confirmed yet

**SULTR 3;5**  
- cofacilitates transport by **SULTR 2;1**

**SULTR 3** homologue from *L. japonicus* is important for rhizobia interaction

## SULTR 4

vacuolar efflux of sulfate

**SULTR 4;1/4;2**

## SULTR 5

sulfate-transporter like proteins

no N- and C-terminal hydrophilic extensions, no STAS domain

**SULTR 5;2**  
- molybdate transporter **MOT1**