

## 32-8046: Recombinant Human Argininosuccinate Synthase/ASS1 (N-6His)

**Gene :** ASS1  
**Gene ID :** 445  
**Uniprot ID :** P00966

### Description

Source: E.coli.  
MW :42.8kD.

Recombinant Human Argininosuccinate Synthase is produced by our E.coli expression system and the target gene encoding Met1-Lys412 is expressed with a 6His tag at the N-terminus. Argininosuccinate Synthase (ASS1) is an urea cycle enzyme with a tetrameric structure composed of identical subunits. ASS1 is involved in the synthesis of arginine and catalyzes that condensation of citrulline and aspartate to argininosuccinate using ATP. ASS1 is important to the urea cycle as it catalyzes the important second last step in the arginine biosynthetic pathway. ASS1 mainly expressed in periportal hepatocytes, but also in most other body tissues. A deficiency of ASS1 causes citrullinemia (CTLN1), an autosomal recessive disease which is characterized by severe vomiting spells and mental retardation.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Supplied as a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, 50mM Imidazole, 1mM DTT, 40% Glycerol, pH 7.5.  
**Storage condition :** Store at -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.  
**Amino Acid :** MGSSHHHHHHSSGLVPRGSHMSSKGSVVLAYSGGLDTSCILVWLKEQGYDVIAYLANIGQKEDFEEARKKALK LGAKKVFIEDVSREFVEEFIWPAIQSSALYEDRYLLGTSLARPCIARKQVEIAQREGAKYVSHGATGKGNDQVRF ELSCYSLAPQIKVIAPWRMPEFYNRFKGRNDLMEYAKQHGIPIVTPKNPWSDENLMHISYEAGILENPKNQAP PGLYTKTQDPAKAPNTPDILEIEFKKGVPVKVTNVKDGTTHTQTSLELFMYLNEVAGKHGVGRIDIVENRFIGMKS RGIYETPAGTILYHAHLIDIEAFTMDREVRKIKQGLGLKFAELVYTGFWHSPECFVRHICIAKSQERVEGKVQVSV LKGQVYILGRESPLSLYNEELVSMNVQGDYEPTDATGFININSLRLKEYHRLQSKVTAK

### Application Note

**Endotoxin :** Less than 0.1 ng/Åµg (1 IEU/Åµg) as determined by LAL test.