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Datasheet for ABIN7318178 **ASS1 Protein (His tag)**

Overview

Quantity:	50 µg
Target:	ASS1
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ASS1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human ASS1 Protein (His Tag)
Sequence:	Met 1-Lys412
Characteristics:	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.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	ASS1
Alternative Name:	ASS1 (ASS1 Products)
Background:	Background: 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

Target Details

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.

Synonym: Argininosuccinate Synthase, Citrulline--Aspartate Ligase, ASS1, ASS

Molecular Weight: 42.8 kDa

UniProt: [P00966](#)

Pathways: [Response to Growth Hormone Stimulus](#), [Cellular Response to Molecule of Bacterial Origin](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Frozen, Liquid

Buffer: Supplied as a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, 50 mM Imidazole, 1 mM DTT, 40 % Glycerol, pH 7.5.

Storage: -20 °C

Storage Comment: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.