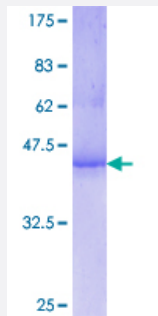


ASS (Human) Recombinant Protein (Q01)

Catalog # H00000445-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human ASS partial ORF (NP_000041.2, 121 a.a. - 220 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	KGNDQVRFELSCYSLAPQIKVIAPWRMPEFYNRFKGRNDLMEYAKQHGIPIPVTPKNPWSMDENLMHISYEAGILENPKNQAPPGLYTKTQDPAKAPNTP
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.74
Interspecies Antigen Sequence	Mouse (97); Rat (98)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — ASS1

Entrez GeneID	445
GeneBank Accession#	NM_000050
Protein Accession#	NP_000041.2
Gene Name	ASS1
Gene Alias	ASS, CTLN1
Gene Description	argininosuccinate synthetase 1
Omim ID	215700 603470
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene catalyzes the penultimate step of the arginine biosynthetic pathway. There are approximately 10 to 14 copies of this gene including the pseudogenes scattered across the human genome, among which the one located on chromosome 9 appears to be the only functional gene for argininosuccinate synthetase. Mutations in the chromosome 9 copy of ASS cause citrullinemia. Two transcript variants encoding the same protein have been found for this gene . [provided by RefSeq]
Other Designations	OTTHUMP00000022362 OTTHUMP00000022363 OTTHUMP00000022364 citrulline--aspartate ligase

Pathway

- [Alanine](#)
- [Arginine and proline metabolism](#)

- [Metabolic pathways](#)

Disease

- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)