

ASS1 Protein, Human (His)

Cat. No.:	HY-P7613
Synonyms:	rHuASS1, His; Argininosuccinate Synthase; Citrulline--Aspartate Ligase; ASS1; ASS
Species:	Human
Source:	E. coli
Accession:	P00966 (M1-K412)
Gene ID:	445
Molecular Weight:	Approximately 50.0 kDa

PROPERTIES

AA Sequence	<pre> HHHHHHMSSK GSVVLA YSGG LDTSCILVWL KEQGYDVIAY LANIGQKEDF EEARKKALKL GAKKVFIEDV SREFVEEFIW PAIQSSALYE DRYLLGTSLA RPCIARKQVE IAQREGAKYV SHGATGKGN D QVRFELSCYS LAPQIKV IAP WRMPEFYNRF KGRNDLMEYA KQHGIP I PVT PKNPWSDEN LMHISYEAGI LENPKNQAPP GLYTKTQDPA KAPNTPDILE IEFKKGVPVK VTNVKDGTT H QTSLELFMYL NEVAGKHG VG RIDIVENRFI GMKSRGIYET PAGTILYHAH LDIEAFTMDR EVRKIKQGLG LKFAELVYTG FWHSPCECFV RHCI AKSQER VEGKVQVSVL KGQVYILGRE SPLSLYNEEL VSMNVQGDYE PTDATGFINI NSLRLKEYHR LQSKVTAK </pre>
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filter solution of 20 mM PB, 150 mM NaCl, 50 mM Imidazole, 1 mM DTT, 40% Glycerol, pH 7.5.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background

Arginine is required by all tissues in the human body for protein synthesis, and by some tissues for specialized needs. Any de novo biosynthetic pathway for arginine involves the conversion of citrulline to arginine catalyzed by argininosuccinate synthase and argininosuccinate lyase. Specifically, argininosuccinate synthase catalyzes the condensation of citrulline and aspartate to form argininosuccinate, the immediate precursor of arginine^[1].

REFERENCES

[1]. Ricci J Haines, et al. Argininosuccinate synthase: at the center of arginine metabolism. *Int J Biochem Mol Biol.* 2011;2(1):8-23.

Caution: Product has not been fully validated for medical applications. For research use only.

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