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ASL, 1-464aa, Human, His tag, E.coli

产品货号: TP01247

第三版

别名: Argininosuccinate lyase, ASAL

描述: ASL (argininosuccinate lyase) belongs to the lyase 1 family. ASL is an enzyme that catalyzes the reversible breakdown of argininosuccinate (ASA) producing the amino acids arginine and fumarate. Located in liver cytosol, ASL is the fourth enzyme of the urea cycle and involved in the biosynthesis of arginine in all species and the production of urea in ureotelic species. While ASS (argininosuccinate synthetase) catalyzes the formation of argininosuccinate from citrulline and aspartate, ASL breaks the newly formed argininosuccinate into L-arginine and fumarate. L-arginine continues through the urea cycle to form urea and ornithine, while fumarate can enter the citric acid cycle. Recombinant human ASL protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

配方: Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 2mM DTT, 10% glycerol, 100mM NaCl

分子量: 53.8kDa (484aa)

序列:

MGSSHHHHHHSSGLVPRGSHMAESGKLWGGRFVGA VDPIMEKFNASIAYDRHLWEVDVQGSKAYSRGLEKAGLLTKA
EMDQILHGLDKVAEEWAQGTFKLNSENDEIHTANERRKELIGATAGKLHTGRSRNDQVVTDLRLWMRQTCSTLSGLL
WELIRTMVDRAEAERDVLFPGYTHLQRAQPIRWSHWILSHAVALTRDSERLLEVRKRINVLPLGSGAIAGNPLGV DRELLR
AELNFGAITLNSMDATSERDFVAEFLFWASLCMTHLSRMAEDLILYCTKEFSFVQLSDAYSTGSSLMPQKKNPDSLELIRSKA
GRVFGRCAGLLMTLKGLPSTY NKDLQEDKEAVFEVSDTMSAVLQVATGVISTLQIHQENMGQALSPDMLATDLAYYLVR
KGM PFRQAHEASGKAVFMAETKGV ALNQLSLQELQ TISPLFSGDVICVWDYGH SVEQY GALGGTARSSVDWQIRQVRAL
LQAQQA

纯度: > 95% by HPLC

浓度: 0.5mg/ml (determined by Bradford assay)

内毒素: <1.0 EU per 1 ug of protein (determined by LAL method)

存储: +4 ° C 保存 (1-2 周). 长期保存在 -20 ° C 或者 -70 ° C. 避免反复冻融.