Recombinant Human HAl, His-tagged

Cat. No. HAl-103H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Histidase/HAL is produced with our mammalian expression system in human cells. The target protein is expressed with sequence (Met1-Leu657) of Human HAL fused with a 6His tag at the C-terminus.
Species	Human
Source	HEK293
ProteinLength	1-657 a.a.
Description	Histidase (HAL) belongs to the PAL/Histidase family. Histidase deaminates histidine to urocanic acid, the first step in histidine degradation. It is closely related to the plant enzyme phenylalanine ammonia-lyase , but is absent in plants and viruses. HAL contains a unique cofactor called 4-methylidene-imidazole-5-one group (MIO), which is produced autocatalytically by a cyclization and dehydration of the three amino-acid residues alanine, serine and glycine, for its chain folding. Defects in HAL are the cause of histidinemia (HISTID). HISTID is characterized by decreased urocanic acid as well as increased histamine and histidine in body fluids.
Form	Supplied as a 0.2 μM filtered solution of 20mM Tris-HCl, 150mM NaCl, 10% Glycerol, pH 7.5
AA Sequence	MPRYTVHVRGEWLAVPCQDAQLTVGWLGREAVRRYIKNKPDNGGFTSVDDAHFLV RRCKGLGLLD NEDRLEVALENNEFVEVVIEGDAMSPDFIPSQPEGVYLYSKYREPE KYIELDGDRLTTEDLVNLG KGRYKIKLTPTAEKRVQKSREVIDSIIKEKTVVYGITTGF

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	GKFARTVIPINKLQELQVNLVRSHS SGVGKPLSPERCRMLLALRINVLAKGYSGISLE TLKQVIEMFNASCLPYVPEKGTVGASGDLAPL SHLALGLVGEGKMWSPKSGWADA KYVLEAHGLKPVILKPKEGLALINGTQMITSLGCEAVERASA IARQADIVAALTLEVLK GTTKAFDTDIHALRPHRGQIEVAFRFRSLLDSDHHPSEIAESHRFCDR VQDAYTLRC CPQVHGVVNDTIAFVKNIITTELNSATDNPMVFANRGETISGGNFHGEYPAKALDY L AIGIHELAAISERRIERLCNPSLSELPAFLVAEGGLNSGFMIAHCTAAALVSENKALCH PSSVD SLSTSAATEDHVSMGGWAARKALRVIEHVEQVLAIELLAACQGIEFLRPLKT TTPLEKVYDLVRS VVRPWIKDRFMAPDIEAAHRLLLEQKVWEVAAPYIEKYRMEHIP ESRPLSPTAFSLQFLHKKSTK IPESEDLVDHHHHHH
Endotoxin	Less than 0.1 ng/μg (1 IEU/μg).
Purity	Greater than 95% as determined by reducing SDS-PAGE.
Storage	Store at Please minimize freeze-thaw cycles.

GENE INFORMATION

Gene Name	HAL histidine ammonia-lyase [Homo sapiens]
Official Symbol	HAl
Synonyms	HAL; histidine ammonia-lyase; HIS; histidase; HSTD;
Gene ID	3034
mRNA Refseq	NM_001258333
Protein Refseq	NP_001245262
MIM	609457

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

UniProt ID	P42357
Chromosome Location	12q22-q24.1
Pathway	Histidine catabolism, organism-specific biosystem; Histidine metabolism, organism-specific biosystem; Histidine metabolism, conserved biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of amino acids and derivatives, organism-specific biosystem; histidine degradation III, organism-specific biosystem;
Function	ammonia-lyase activity; catalytic activity; histidine ammonia-lyase activity; lyase activity;

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA